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 <211> 3115
 <212> DNA
 <213> Homo sapiens

<400> 404

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 407
 <211> 1652
 <212> DNA
 <213> Homo sapiens

<400> 407

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 <212> DNA
 <213> Homo sapiens

<400> 408

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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<210> 417
<211> 850
<212> DNA
<213> Homo sapiens

<220>
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<223> n = a,t,c or g

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<210> 418
<211> 360
<212> DNA
<213> Homo sapiens

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tgagtgtcca gattaagagc tggctgccct agtcatttta aaacatgctg ggaatccaag 240
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<210> 419
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 <223> n = a,t,c or g

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<210> 420
 <211> 986
 <212> DNA
 <213> Homo sapiens

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<210> 421
 <211> 1209
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 425
<211> 1131
<212> DNA
<213> Homo sapiens

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<400> 425
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<210> 426
<211> 551
<212> DNA
<213> Homo sapiens

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<223> n = a,t,c or g

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<400> 426
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<210> 427
 <211> 1579
 <212> DNA
 <213> Homo sapiens

<400> 427

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<210> 428
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 428

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<210> 429

<211> 1567

<212> DNA

<213> Homo sapiens

<400> 429

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<210> 430

<211> 728

<212> DNA

<213> Homo sapiens

<400> 430

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gccagggagc	tggagcgtgt	ggagcagcag	tctcggctgg	agcagctgag	tgcggcagag	660
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<210> 431

<211> 1524

<212> DNA

<213> Homo sapiens

<400> 431

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<210> 432

<211> 1908

<212> DNA

<213> Homo sapiens

<400> 432

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<210> 433
 <211> 1714
 <212> DNA
 <213> Homo sapiens

<400> 433

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<211> 1968

<212> DNA

<213> Homo sapiens

<400> 436

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 <212> DNA
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<400> 443
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<210> 445
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 445

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<210> 447
 <211> 1030
 <212> DNA
 <213> Homo sapiens

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<210> 448
 <211> 1936
 <212> DNA
 <213> Homo sapiens

<400> 448

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<210> 449
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 449

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<210> 450
 <211> 1073
 <212> DNA
 <213> Homo sapiens

<400> 450

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<210> 451

<211> 2674

<212> DNA

<213> Homo sapiens

<400> 451

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<210> 452
 <211> 601
 <212> DNA
 <213> Homo sapiens

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<400> 452
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<210> 453
 <211> 474
 <212> DNA
 <213> Homo sapiens

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<210> 455
 <211> 1790
 <212> DNA
 <213> Homo sapiens

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<400> 455
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tccttggcag atgtcatcat ccatgagatc tcccacagtt ggtttgggaa cctggtcacc      420
aacgccaaact ggggtgaatt ctggctcaat gaaggtttca ccatgtacgc ccagaggagg      480
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ttctgctttg totcatacct ggcccacttg gtgggtgatc aggatcagtt tgacagtttt      720
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<210> 456
<211> 1293
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1) ... (1293)
<223> n = a,t,c or g

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 <211> 1155
 <212> DNA
 <213> Homo sapiens

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 <211> 1297
 <212> DNA
 <213> Homo sapiens

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tagttgtaca	ttttgagaag	gcaaatccat	tggaaacttg	ggaggcttag	aacataaatc	240

agtattagaa	gtaaaggga	cacacagcta	aaagttttac	tttaatcaca	aattcacaa	300
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<210> 459
 <211> 777
 <212> DNA
 <213> Homo sapiens

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<210> 460
 <211> 859
 <212> DNA
 <213> Homo sapiens

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<210> 461
 <211> 1975
 <212> DNA
 <213> Homo sapiens

<400> 461						
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 <212> DNA
 <213> Homo sapiens

<400> 462
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 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 463
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<210> 464
 <211> 2017
 <212> DNA
 <213> Homo sapiens

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 <211> 1927
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2547

<212> DNA

<213> Homo sapiens

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<211> 1228

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<400> 487

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<212> DNA

<213> Homo sapiens

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<220>

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<223> n = a,t,c or g

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 <212> DNA
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<210> 548
 <211> 1864
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1) ... (1864)
 <223> n = a, t, c or g

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<210> 549
 <211> 649
 <212> DNA
 <213> Homo sapiens

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<210> 550
 <211> 696

<212> DNA
<213> Homo sapiens

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 ttaccaaggt gcttattttc gacaaaatgc cctgtcactc agaggacgca tgcgtatact 240
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<210> 551
<211> 1037
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1037)
<223> n = a,t,c or g

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<210> 552

<211> 813
 <212> DNA
 <213> Homo sapiens

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 <211> 1451
 <212> DNA
 <213> Homo sapiens

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<210> 554
 <211> 1663
 <212> DNA
 <213> Homo sapiens

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 <211> 1040
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 556						
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 <211> 971
 <212> DNA
 <213> Homo sapiens

<400> 557

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<210> 566
 <211> 984
 <212> DNA
 <213> Homo sapiens

<220>
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 524
 <212> DNA
 <213> Homo sapiens

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<210> 571
 <211> 2219
 <212> DNA
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 <212> DNA
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 <212> DNA
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<400> 573

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<211> 928

<212> DNA

<213> Homo sapiens

<400> 574

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<212> DNA

<213> Homo sapiens

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 <212> DNA
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 <212> DNA
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 <211> 716
 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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2047

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 <213> Homo sapiens

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<400> 604

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<211> 783

<212> DNA

<213> Homo sapiens

<400> 605

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<211> 2513

<212> DNA

<213> Homo sapiens

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<211> 768

<212> DNA

<213> Homo sapiens

<400> 607

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 <212> DNA
 <213> Homo sapiens

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 <211> 1256
 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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<212> DNA
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<400> 614

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<400> 637

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<211> 1210

<212> DNA

<213> Homo sapiens

<400> 640

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 <213> Homo sapiens

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<210> 647
 <211> 1498
 <212> DNA
 <213> Homo sapiens

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 <211> 1013
 <212> DNA
 <213> Homo sapiens

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 <211> 1504
 <212> DNA
 <213> Homo sapiens

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<211> 2231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2231)

<223> n = a,t,c or g

<400> 650

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 <212> DNA
 <213> Homo sapiens

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ccacaaaagg	agctgccact	2220
cagttaaaat	tgctggagtc	2280
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 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(457)
 <223> n = a,t,c or g

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 <212> DNA
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<210> 654
 <211> 1725
 <212> DNA

<213> Homo sapiens

<400> 654

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aacttggaag	atcttgaaga	gaagaatctt	gcgagtggtc	gcgcactgca	ataaacccaa	1680
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<210> 655

<211> 748

<212> DNA

<213> Homo sapiens

<400> 655

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cacggaaatc	atccgttact	cctttttatac	attcagtcta	ttaaaccatc	tgccttacct	480
catcaaaagg	gccagggtaca	cacttttcat	tgtgctgtac	ccaatgggag	tgtcaggaga	540
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tttaccacaac	tctacaaaaa	aaattttttt	aattagccag	gtatgggtggc	atatgcttgc	660
agtctcagct	gacgctaagg	cggcagaaat	gcctgctgta	cttaagcctg	ggccatagag	720
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<210> 656
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 656
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 caaaaaaaaa aaacatt 977

<210> 657
 <211> 746
 <212> DNA
 <213> Homo sapiens

<400> 657
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 gagatcgcca ccgagatcag ccgcaagatc cggagtgcga ttaaggggaa attacagaa 180
 ttaggagctt atgttgatga agaacttctt gattacatta tggatgatgt ggccaacaag 240
 aaaagtcagg accaaatgac agaggatctg tccctgtttc tagggaacaa cacaattcga 300
 ttcaccgtat ggcttcatgg tgtattagat aaacttcgct ctgttacaac tgaacctctt 360
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 ttcagtcggg gagatgagag gaggcataaa gctgcagtgc caccacttgg ccattcctag 480
 cgcgagacct gaaaaaagag attccagagt ttctacaagt tcgcaggagt caaaaaccac 540
 aaatgtcaga cagacttacg atgatggagc tgcaaccgga ctaatgtcaa cagtgaacct 600
 ttgaggggagc cagcaccctc tgaagatgtg attgatatta agccagaacc agatgatctc 660
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 acattacat atggttcttc tcgccc 746

<210> 658
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 658
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 aggtgcagcc cgaagcagcc agaccagccc ctgagcctcc cgggtgctgg cagctgtcat 180
 ggggctaccc tgggggcagc ctcacctagg gctgcagatg ctccctcctgg cgttgaactg 240
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 cctggaaggg aaggtcacag ccaccacctt ctccctggag cagccgcgct gtgtcttcga 360
 tgggcttgcc agcgccagcg ataccgtctg gctcgtgggt gccttcagca atgcctccag 420
 gggcttccag aaccgggaga cactggctga cattccggcc tccccacagc tgctgaccga 480
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<210> 659
 <211> 538
 <212> DNA
 <213> Homo sapiens

<400> 659
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 acaggacaga gacagctgcc cgggaggatg ggagaacaga aagagggagg aaacgccgag 180
 cactgacctg ggggagggga gtaaagagaa gtgaaggggg attggaaggg aactggagaa 240
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 gccctccac cccgccccca acccataaac tgaaaacaag taggaacctg gataaaatag 420
 tcttaacaat tttttttttg agacggagtc ttgctgtgtt gccaggctg gagtgcagtg 480
 gcgcgatctc ggctcactgc aggtcccgcc tccggggttt aagcggttct cctgccta 538

<210> 660
 <211> 735
 <212> DNA
 <213> Homo sapiens

<400> 660
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 accccacgag gcgctcagca cccagggaag gcgctgtgtt cccgatgct ggctcctccc 180
 tgagccccga cggctctcga ggttctgagc ctgtggcctg cacagggaac ttcctctccg 240

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gtgccagaga	gagagttggg	tcctgagaga	aaggaagggt	gtggtaattg	acacccctga	660
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<210> 661
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 661						
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<210> 662
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<400> 662						
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gtaaaatgca	ggggaaaaaa	agtcacaaga	agtataaaga	ttggatgctt	cttgtgtctc	180
tttttgtaaa	atacagatga	tcctcaagaa	gtaacttgag	cagattttct	actggctttc	240
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acaacaattt	ataatacttt	ataccacaag	ggtaaactag	taagctgctt	tctaaaatta	1080
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<210> 663
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 663						
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gtgggaggat	cacttgagcc	caggagggtg	aggctgcagc	aagccatgat	tgtgccacta	480
cattttggcc	tgggcaacag	agtgagaccc	tgtctcaaaa	aacaacaaca	acaacaacaa	540
caacaacaaa	aaaaaa					556

<210> 664
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 664						
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ttctcttaca	ttctagccgt	cgcctcatt	gctggaattg	ctctcgtcta	caactacatc	300
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<210> 665

<211> 411
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = a,t,c or g

<400> 665
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 ctgaattatc caatgaggag aggaatcttc tctcagatgc tcataccaat gctgtatgag 180
 cccgtaggtc atcttgatg ggcgcatgac gtatcgaaca aaagaccgaa ggtgctgaca 240
 cacagcagca gatggctcca gactgcagag agatttttgc gacggagcta agagatatct 300
 gcgatgatgt actgtctctt ttggaaaagc tcttgatccc caatgcttca catgcataga 360
 gcttagtcta ctatttgcac atgacggag attactaccg ttactggctt n 411

<210> 666
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 666
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 ggctgtggag agcccgctcc actgcgctga caatggacag caaattatgg atgaacctat 120
 gggagaggac gagattagcc cacaaactga ataagtcagt atcaaagaag ttgctgtcac 180
 acattgtgta aaggaaggac atgataaggc agatccttcc cagattgaac ttttaagagt 240
 cttacggcag ggatcattgg gaaagggtga cttaggtaag aaagtctcag gctctgatgc 300
 taagcagctg tatgccatga aggtattgac gag 333

<210> 667
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<400> 667
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 cacattgcag cctttggggg acatcctcag tgccctggtct ggctgattca agcaggagcc 180
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 gcttttgctg tggatgtagt gtagcttgct gaacagggtat ggaagctgtc tttgctgtta 420

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gcatatttag	tttatctccc	aaatcttgct	tagaaaataca	atgtatataa	gagaagtttag	1260
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 <211> 1156
 <212> DNA
 <213> Homo sapiens

<400> 668						
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acttttgtag	acttgtctga	gtattatgaa	tttttgtaag	aaattcctaa	gaatctttct	180
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gaacacaagg	gccttg					1156

<210> 669
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 669
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<210> 670
 <211> 682
 <212> DNA
 <213> Homo sapiens

<400> 670
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<210> 671
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 671

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<210> 672
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<400> 672						
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<210> 673
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 673						
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<210> 674
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 674						
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<210> 675
 <211> 1423
 <212> DNA
 <213> Homo sapiens

<400> 675						
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<210> 676
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 676
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 caccacatag tgaagtggaa ctgtttaacc agtgaacaa ctcaaatagt aaagcttctc 360
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 aagactggga tgcttatatc t 621

<210> 677
 <211> 1258
 <212> DNA
 <213> Homo sapiens

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 aattcatcct gcgccacctg cccgactacc gcgaccgccc cgacggcagc ggcgcgctgg 240
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<210> 678
 <211> 1289
 <212> DNA
 <213> Homo sapiens

<220> .
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 <222> (1)...(1289)
 <223> n = a,t,c or g

<400> 678

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<210> 679
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 679

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<210> 680
<211> 349
<212> DNA
<213> Homo sapiens

<400> 680
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<210> 681
<211> 329
<212> DNA
<213> Homo sapiens

<400> 681
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<210> 682
<211> 574
<212> DNA
<213> Homo sapiens

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<210> 683
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 683						
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<210> 684
 <211> 1271
 <212> DNA
 <213> Homo sapiens

<400> 684						
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gaagaaacat	gatgcagact	ccttctacca	gttttcttgc	aatatctgtg	gcaaaaaatt	1140
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<210> 685
 <211> 685
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (685)
 <223> n = a,t,c or g

<400> 685						
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caaatgggac	cctgtcgtcc	tgaagaaccg	gcaggcagag	cagctggtn	ttccctgga	540
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<210> 686
 <211> 962
 <212> DNA
 <213> Homo sapiens

<400> 686						
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ct						962

<210> 687
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 687						
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<210> 688
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 688						
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<210> 689
 <211> 116

<212> DNA
 <213> Homo sapiens

<400> 689
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<210> 690
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 690
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 ctcacctagt ggcaatggct ccaggctccc ggacgtccct gtcctggct tttgccctgc 180
 tctgcctgcc ctggcttcaa gaggtcgttg ccgtccaaac cgttccgtta tccaggcttt 240
 ttgaccacgc tatgtccaa gccatcgcg cgcaccagct ggccattgac acctaccagg 300
 agtttgaaga aacctatatt ccaaaggacc agaagtattc attcctgcat gactcccaga 360
 cctccttctg cttctcagac tctattccga caccctccaa catggaggaa acgcaacaga 420
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 tgcggtacct catgagtata gtccccaac 509

<210> 691
 <211> 1362
 <212> DNA
 <213> Homo sapiens

<400> 691
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 ttttctcgag tcccagaaaa gagagtataa acttcgaaaa gacgagctta aagaggagct 180
 aaatgaaaac cagagtaccc ccaaaaaaga aaaacaggag tggctttcaa agcagaagga 240
 gaatatacag catttccaag cagaagaaga agctaacctt cttcgacgtc aaagacaata 300
 cctagagctg gaatgccgtc gtttcaagag aagaatgtta cttgggcgtc ataacttaga 360
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<210> 692
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 692						
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<210> 693
 <211> 1671
 <212> DNA
 <213> Homo sapiens

<400> 693						
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<210> 694

<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(898)

<223> n = a,t,c or g

<400> 694

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<210> 695

<211> 630

<212> DNA

<213> Homo sapiens

<400> 695

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agatgttaca	agccccgaag	cagcacatga	gcactgagct	gactattgag	tccgaggcgc	360
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<210> 696
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 696

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<210> 697
 <211> 719
 <212> DNA
 <213> Homo sapiens

<400> 697

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acaagatcca	tgtgtggatg	aaatgttagg	aaaaggagg	cccagtgga	gtgggctcac	660

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<210> 698
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 698
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<210> 699
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 699
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<210> 700
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 700
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 tcccaacacc acgaggaaca aaaatgagcc atccaaatga gctttaccga aattctgac 180

ccacggtgtc	aagagcaatg	aaagggttgt	cgtttggctc	tttccgcat	cttttcgtgc	240
cgccacaatg	gtgcacatga	atgtcctgcc	tgatgctctc	aagagcatca	acaatgccga	300
aagaagaggc	aaaccccagg	ttcttattag	gctgtgctcc	aaaatcatca	tctggtttct	360
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<210> 701
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 701						
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ccgagccccc	tcccctggcc	cagcccgact	ccctcctcct	tcccgaacca	tccggctcgg	180
gctccttccc	tggcgatggc	tggccgctga	gccatggctc	agtacggcca	ccccagtcgg	240
ctcggcatgg	ctgcgagaga	ggagctgtac	agcaaagtca	ccccccggag	gaaccgccaa	300
cagcgcgccg	gcaccatcaa	gcatggatcg	gcgctggacg	tgctcctctc	catgggggtc	360
cccagagccc	gcgcacaaaa	agccttggca	tccacgggag	gaagaagtgt	tcaggcagca	420
tgtgactggg	tattctccca	tgtcgggtgac	cccttcctgg	atgacccctc	gccccgggag	480
tacgtcctct	acctccgtcc	caccggcccc	ttagcacaga	agctttccga	cttttggcag	540
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acggtcagtc	gctggaaatg	taagttctcg	gccccgctgc	ccctggagct	ctatacgtcg	720
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gatatccgat	ttgctac					977

<210> 702
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 702						
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ttagtcttct	ggaggctatg	atttttgcct	tactcccaaa	gccacggaag	aacgttgetg	180
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ttgcccggtc	gggatctggt	cttggtctct	gggatatacaa	taaggagggg	aatgaggaaa	300
catgtaagat	ggctcgggaa	gctggagcca	caagagtgc	cgcctatacc	tgcgattgca	360
gccccaaagg	aggagtgtat	agagtagccg	accagggttaa	aaaaga		406

<210> 703

<211> 987
 <212> DNA
 <213> Homo sapiens

<400> 703
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 tcaagtgtcg tatatagga acaagtattg atgttcaata tgattcaaac tattactggt 180
 ccatagtcag tggagctttt tcaatgtcca gaaagaatac tttcaatctt tatgaacagc 240
 ctaggatttt gcagttgttt ctgaaggctc aaattgtcct gcttcaaatt tttctttgaa 300
 ttttaagtag tctcttcttt tatcaaaata ttttatccac tgttggggac aacttgattc 360
 gaaagagctt cttaacttct tgcattgaga agcatcctct aagttctcat ctaaacactt 420
 ccagtactca tcccgggccc cccagcagac ctgtctttcc ttcatagatg gggctgccat 480
 tcctactgcg atgaagctct ctgcccggcc acgtccggct tcctttcgat gtcgacggga 540
 ggaaactgtc acgcaggcca ccaaccggcg gtggagggcg cggtgccgag tcctgccact 600
 gcagggctcg cccgctggct caagctctag aagcgtagac ctccccagcc gcaaaaagca 660
 agtcacgcgg cgaaaccgcg gactcttttg acccttccga gctaccattt actttccata 720
 gaggggcggg acttctgtt tcgtttttat cttgtctcgc tcttcgccc agtctcgagt 780
 gcagtgggta gaacacggct tactgcagcc tcaaaatcct ggacccaaaa gatcctocca 840
 cctcagctcg cctcccaggt agctgggact acaggcgcac aacaccatcg cttcttggat 900
 taaaagaaaa ggatgaaacg ggccccagaa agaggcggtg acgtcccaga acccatggca 960
 ggggagttgg gaaaataaat atttgta 987

<210> 704
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 704
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 tgaatcctgc tcagagaaaa ctctacagag atgtcatgct ggagaccttc aagcacctgg 180
 cctcagtaga taatgaggct cagcttaaag ccagtgggtc tatttctcag caggatactt 240
 ctggagaaaa attatccctc aaacagaaaa tagaaaagtt cacaagaaag aatatatggg 300
 cctccctttt aggaaaaaat tgggaagaac atagcgttaa agacaagcac aacaccaagg 360
 agagacattt gagcagaaat ccaagggtgg agagaccatg taaaagcagt aaaggtaata 420
 aacgtggaag aaccttcaga aagactcgaa attgtaatcg tcatctgcgc agg 473

<210> 705
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (435)
 <223> n = a, t, c or g

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<400> 705
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tctaccaact actgaaagga aaagctggtg ctggggagcc ctccacacca ctgactgatg    120
aatttcagca cgtcctggca cactgggctg tgggaggtct gtgagcaaat ggaagaacat    180
gagaggaact tgtaaatgct ggaaatacaa aatcagctcc atcgcaggct tcagggtctg    240
catctgcctt cctgtaatcc caccatctt tntagtgtgt atgtgggttt tttgtttgtt    300
ttgagacaaa gtcttgcttt gtgcccagg ctggagtgcg gtggcacaat ctcagctcac    360
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attataggcg cgtgc

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<210> 706
<211> 894
<212> DNA
<213> Homo sapiens

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<400> 706
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tgcgctcagt tccagctatt cttcagatgc tctggatttt gagacggagc acaaattgga    180
ccctgtattt gattctccac ggatgtcccg ccgtagtttg cgcctggcca cgacagcatg    240
caccctgggg gatgggtgagg ctgtgggtgc cgacagcggc accagcagcg ctgtctccct    300
gaagaaccga gcggccagggt gagcacgct gcacttctc tccatctgat ctctaacacc    360
agttaaaacc aagcttccat actttttggt ctgtaaagcc gcaccctgtc tcgagcttaa    420
ggatatgtgt gtgtatgtgc gtgtacagac acacaaacct gccatataaa gtggtagttt    480
gctgcaaata aagactgaaa ggaactctgg aatctgtgtg gcttgtctag tattgatgtt    540
ctgctgttct tgtttcaagt tctcttcgct ggtgcacgcc acgtgcagtg ccagcactca    600
ggtctggaag ctttgtggtc ctgtgggtgg agctcagcta cagctgtcct accacatgtg    660
taaagaggaa ggaatcttac agattacaca tgctgtcgtg gacgatctcc gtgtccagtt    720
cattcttttt tctggagacg gagtctcgtc ctgtgcgcc aggggtggaat gcagtggcac    780
gatctcagct cactgcctcc tctgtctccc gggttcaagc gattctactg cacgcagcct    840
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<210> 707
<211> 410
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(410)
<223> n = a,t,c or g

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<400> 707
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cctgttgggtg	gactgtactg	atactcaact	agagtgtgaa	gggactggat	tcctgcccct	120
gagacacaat	gcaagctgta	gtgcccttga	acaagatgac	agccatctca	ccagaacctc	180
aaactctggc	ctcgactgaa	caaaatgagg	tcccaagagt	ggttacttct	ggggaacaag	240
aagctatttt	aagaggaaat	gctgctgatg	cagagtcttt	cagacagagg	tttaggtggt	300
tttgttactc	agaagtagct	ggacccagga	aagctctgag	tcaactctgg	gagctctgca	360
atcagtggct	gagaccagac	attcacacga	aagaancaga	ttttagagct		410

<210> 708
 <211> 650
 <212> DNA
 <213> Homo sapiens

<400> 708						
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agaagggaga	ggagcgaaca	tggcagcgcg	ttggcggttt	tgggtgtgtct	ctgtgaccat	120
ggtggtggcg	ctgctcatcg	tttgcgacgt	tccctcagcc	tctgccc aaa	gaaagaagga	180
gatggtgtta	tctgaaaagg	ttagtcagct	gatggaatgg	acta caaaa	gacctgtaat	240
aagaatgaat	ggagacaagt	tccgtcgct	tgtgaaagcc	ccaccgagaa	attactccgt	300
tatcgtcatg	ttcactgctc	tccaactgca	tagacagtgt	gtcgtttgca	agtatgaact	360
ccaactacgc	tttaaaatta	aataactcat	ataacgttaa	ccatttctca	atcccagaag	420
ggccaagtta	gtgcagtagg	tacttaaata	atgtgtatac	cttactcagg	atgtctatgg	480
tagcaatact	actgctcttt	tatagtcaat	tcttgattat	ccgtatcagt	gggggaagca	540
tggataaata	attgtggtag	ccatcataaa	agtaacttaa	agatcaaaca	gtcatcttat	600
aaattagtat	caacttggcg	gggcatgggg	gctcatgcct	gtaatccccg		650

<210> 709
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 709						
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tccaactaaa	gctttacctg	agaaagccaa	aagaagtaaa	aggcctactg	tacctcatga	180
tgaagactct	tcagatgata	ttgctgtagg	tttaacttgc	caacatgtaa	gtcatgctat	240
cagcgtgaat	catgtaaaga	gagcaatagc	tgagaatctg	tggtcagttt	gctcagaatg	300
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ctttaagagt	tccagaacag	agccccattg	tattataatt	aatctgagca	catggattat	480
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<210> 710
 <211> 478
 <212> DNA

<213> Homo sapiens

<400> 710

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ggagcgtgga	gaggagagac	agggatgaagg	tggcggctgg	ctttctggaa	gcagggtggcc	180
tttgggtgcgg	tcagcattcg	tgccagcccc	ctcttctctg	atcctctcca	tgtgtctctc	240
tcctggaatc	ccagaagctg	cccctgactc	cccattaact	gcctctgccc	ctacccccta	300
ggtgatgctt	ctgggagaca	caggcgtcgg	caaaaacatgt	ttcctgatcc	aattcaaaga	360
cggggccttc	ctgtccggaa	ccttcatagc	caccgtcggc	atagacttca	gggtgagggtg	420
gctgcaggca	cttgcttcca	gcagagagcc	agggtctgtg	ctcaggcatg	gggggggtt	478

<210> 711

<211> 585

<212> DNA

<213> Homo sapiens

<400> 711

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cgaagcaaaa	agaccagttt	tcattctttga	atggttgcca	tttcttgata	aagtcttggg	180
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ggaacttgag	agtattacac	gaatgggaaa	tttagtggca	aaactcaaac	ctcgttttaa	360
tccagctcat	tgcctatctt	ctttatgttt	gtacctgggc	agtcatttgt	aactggagaa	420
aaacatggct	atatgactgg	tgctacttta	aatttatcat	cgtcaccctg	tgcaagtgat	480
ctctctatgc	tgcctaacaa	tcccagtgct	ttcacttatc	tctttgagga	gtcaataata	540
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<210> 712

<211> 391

<212> DNA

<213> Homo sapiens

<400> 712

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aaagcgtgta	tcagcaaacc	aaagcacttc	tgtgcaagaa	ttttcttaag	aaatggagga	180
tgaaaagaga	gagcttattg	gaatggggcc	tctcaatact	tctaggactg	tgtattgctc	240
tgttttccag	ttccatgaga	aatgtccagt	ttcctggaat	ggctcctcag	aatctgggaa	300
gggtagataa	atttaatagc	tcttctttta	tggttgtgta	tacaccaata	tctaatttaa	360
cccagcagat	aatgaataaa	acagcacttg	c			391

<210> 713
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 713
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 tccgtgccca gccccaaagg cccaccagc catgagctcc tccagaaagg accacctcgg 180
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 tgcccttcta cgcccagaca cagactttgg gggaaacatg aagtcggtcc tcacctggaa 480
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<210> 714
 <211> 2468
 <212> DNA
 <213> Homo sapiens

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 gatgctggag gacagtcaga gaagaacaga agaggaaaaat ggaaagaagc tcatatccgg 240
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gatcgcatca	ctgtactcca	gctgggtgga	aacggcgaga	ctctacctca	aaaataaata	2340
aatacatata	taattaataa	ataaaacatc	aaagaccagc	cgacctaaact	ccatctaaaa	2400
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<210> 715

<211> 924

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (924)

<223> n = a,t,c or g

<400> 715

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atgaacttgc	tcacaacatc	cgcgcgcaat	gtgacttgca	gtcatcatcc	attaccacaa	180
aattagttgc	aggatggcta	ctcgtatccc	tccacacatg	atcatcagta	tttgccctct	240
gtgtcccaac	cggcctgagt	caaggttacg	actcactgat	taaaaagagg	gactttttca	300
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caaagttatt	ttgctcgact	gaaaaagaaa	aaacaagcca	aacaaaatgc	agagacagcc	420
tcagctgtag	ctacaaggac	tcatactggg	aaggaagata	ataatacagt	agtttttagag	480
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aaaagtaatc	agttaaagga	gatcaggcgt	acagaactaa	agagatatta	tagtattgat	600
gacaatcaaa	acaaaacaca	tgataaaaaa	gagaagaaga	tgggtggttca	gaagcccat	660
gggactatgg	aatacactgc	tggaaaccag	gacaccctaa	actccatagc	actgaaatct	720
aacatcactc	ccaataaatt	ggtggaactg	aataaacttt	tcacacatac	tattgttcca	780
ggccagggtcc	tttttgtgcc	agatgccaac	tctccttcca	gtaccttaag	gctatcatca	840
tccagtccctg	gtgctactgt	ctctccttca	tcatnagatg	cagaatatgn	taattggctg	900
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<210> 716

<211> 679

<212> DNA

<213> Homo sapiens


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<400> 716
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<210> 717

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(821)

<223> n = a,t,c or g

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<400> 717
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<210> 718

<211> 480

<212> DNA

<213> Homo sapiens

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<400> 718
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<210> 719
 <211> 467
 <212> DNA
 <213> Homo sapiens

<400> 719						
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caggggcctc	agggtttttg	cctcctgccc	gtcccgcct	cttcaagata	atcgtgatcg	180
gcgactccaa	tgtgggcaag	acatgcctga	cctaccgctt	ctgcgctggc	cgcttccccg	240
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ttcagcacta	ctacagaaat	gtacatgctg	ttgtcttcgt	gtatgatatg	accaacatgg	420
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<210> 720
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 720						
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ttgttactgt	cttgcataac	tggagcactt	gaagttaaaa	ggaaagagct	tttgaaatac	420
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gtcaagttct						490

<210> 721
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 721

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tttgaaagc	agcagtggcc	cccacatggc	catgctccat	gccgccccgc	cgcccgctggg	180
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cagaggccag	gcagcagagg	gactcctgcc	agcttgtcct	tgtggaaagc	atccccagg	420
acctgccatc	tgcagccggc	agccccctctg	cccagcctct	gggccaggcc	tggctgcagc	480
tgttgacac	tgcccaggag	agcgtccacg	tggcttcata	ctactgggtcc	ctcacagggc	540
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agcagctgct	gggcaggaac	atttcctctg	ctgtggccac	cagcagccc	acactggcca	660
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<210> 722

<211> 677

<212> DNA

<213> Homo sapiens

<400> 722

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gcgtggaaga	cctcgccccg	ctccccctct	gggcgcgggc	tccgcttaag	tgaaggcctg	180
tttgggcgtc	cccaccctgg	agaggggccc	gggtctggat	tttcagaact	gccactcttc	240
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gtggcccaga	gtgtggagct	gcgggaggtc	acttaactca	gcctctggta	ctacaacaag	660
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<210> 723

<211> 600

<212> DNA

<213> Homo sapiens

<400> 723

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ctaccagcaa	ttttgagaac	ttgcaaaaac	agcttgcaag	gaaaatgaag	cttctatttt	180
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gactgagatg	gtttacacca	gcgagtgagg	tcccactctg	tggccatgcc	accctggctt	420
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tgagtggaga	actaagggcc	agacgagcag	aggacggcat	cgtcctggac	ttgcctcttt	540
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<210> 724
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 724						
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cagaggaaac	ttgttccttt	gagtaagaag	gtggagcgta	gggagaaaag		530

<210> 725
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 725						
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cgcgaagcgg	acattgggtg	atcccagcgc	tgtgtgtatt	gcggggaggg	acacctgtgg	240
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ggtcagagag	agttgttgag	taaaagttgg	tgaagcgaag	agggttcttc	agacaggaaa	360
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ggtccttt						428

<210> 726
 <211> 859
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(859)

<223> n = a,t,c or g

<400> 726

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tatctgaaag	tgcttataga	caataaacat	ctcttaagcg	agttctatga	gcctgaggct	480
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gatgccaatc	tctggcttga	aaggagaaga	cttggattct	caggttggag	taatagattt	600
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<210> 727

<211> 450

<212> DNA

<213> Homo sapiens

<400> 727

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tccctaacgg	ggtgttccac	cggcgccctg	cgaggcctag	gcctccgcag	cgcacctccg	180
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cgcagggtgc	tgtgaccttt	gaggatgtgg	ctgtgacatt	cacccaggag	gagtggggac	420
agttggatgc	agcccagaga	accttgtatc				450

<210> 728

<211> 439

<212> DNA

<213> Homo sapiens

<400> 728

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atgccctgct	gtagtcacag	gagctgtaga	gaggaccccg	gtacatctga	aagccgggaa	180

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acctctatag	gaaaaaaatg	gagtgaccag	aacattgaat	atgagtacca	aaacccaga	360
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ggagaaactt	ttacccagg					439

<210> 729
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 729						
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gctgcctttg	ccgtcaccat	gccacagaat	gaatatattg	aattacaccg	taaacgctat	180
ggattccgtt	tggattacca	tgagaaaaag	agaaagaagc	aaagtcgaga	ggctca	236

<210> 730
 <211> 807
 <212> DNA
 <213> Homo sapiens

<400> 730						
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cttcattgaga	atcctctgta	gtctgggtgag	tgtagtgtcc	gactctggag	cccaggctgt	180
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<210> 731
 <211> 944
 <212> DNA
 <213> Homo sapiens

<400> 731

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<210> 732

<211> 761

<212> DNA

<213> Homo sapiens

<400> 732

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gcaccgagga	cgaggaggag	ggggcgagcc	tgggcgacgg	cagcggggcg	gaaggcggca	180
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gaagcgtgga	ccttccccca	gtggggcatg	atgagctttc	gcgagggacc	cgcaactaca	480
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tttgtgatgt	cagcattgtg	gtaagcggaa	aaatcttcaa	agctcataag	aacatcctgg	720
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<210> 733

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(523)

<223> n = a,t,c or g

<400> 733

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ctcattgacc ggacccgcgg ggatgaaccc acaggagagg tgctgtccct tgttgggaag 240
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aaagagactc gggagaccta tgaggtgcta ctcagcttca tccaggctgc tcttggggac 480
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<210> 734

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 734

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atccccacct gaacaaaggc acacggacag gaggaagggg aataggactt cgcaaaactg 180
gacacggcat cgcttcagat cttggactct gaggttccgt tgttactggt ttcacagtta 240
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tgaaatctgc actaaagtca tcataactgg ggggtgactgt ataataatag accacctgat 420
aatattcatc ctctcccagt ctttcttcat cctcatatcc ttgtcccagg ataagtggca 480
cagcaaagat ggctacaaag aggacatcca ttctggatcc tgcactattg catcaccacc 540
cagagttgcc tttctctctg aggttctatc agtctctttt cgtcacagtg gaaatgttct 600
gaggaagggg tgagcatttt tctagactga aaagaatccc tttcttctgt ctgtctggag 660
cagccatggg ggctgcgggtg ttttctggct gcactttcgt cgcgttcggc cgggccttcg 720
cgcttttctt gatcactgtg gctggggacc cgcttcgcgt tatcatcctg gtcgcagggt 780
gagtagaggg ccggggagac gcgggagagc gtcgaagaga gaggtgcgga aggggctgga 840
ggaactgggg caagcctggg agcctgaatt ggggacgata agtcggaggt gaagtttggg 900
cggaggtgag ggggtgggtc tgggagattt gtcctttccc gcagttggtt tccaccttcc 960
aaggatctca cagattcctc ctatattcct cccagcgacg tcagagaagg cccaaggccg 1020
agactcgtga gggggctgtg ctgacctagg caggccgagt cagggtgcctt aggggaggat 1080
ccaggaacgg atacctcgcc cttccgtgct cgcacactct ggctgtcatc gctctgaaga 1140
ctctttaatt agatttctcc cctttccagt gcgttcaact ttctacagat gagtctcctg 1200
gtggagacag ttacctacc tgggtccatgt ctccctaacc atccggaagg ctaacttcca 1260
cttttcaage agctttggct gggttccctc cttgatttct ctgggtccca ctactattgc 1320
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<210> 735

<211> 703

<212> DNA

<213> Homo sapiens

<400> 735

tttcgtgaga	ggcccaggtg	aggagcaagc	gcccgcgttc	cggaagcccc	ctcccggggc	60
catgggggca	caggtgaggg	tgccgcccgg	agagccctgc	cgagaaggat	atgtgctgtc	120
tctggtctgt	ccaaactcct	cccaggcttg	gtgtgagatc	acaaatgtgt	cacagctgct	180
ggcttctcct	gtgctctaca	cggacctgaa	ttacagcata	aacaacttga	gcatttcagc	240
aaatgtagaa	aacaaataca	gtctttatgt	gggcttggtg	ctggcagtaa	gctcaagtat	300
ttttattggc	tccagcttca	tactgaaaaa	gaagggcctc	ttgcaactgg	ccagcaaggg	360
ctttactaga	gctggacaag	gtggacattc	ttacctgaag	gaatggctct	ggtagggtagg	420
attgctgtca	atactgtcct	ggaatgcaag	ggaaaaagtt	gacctttgaa	atattacatt	480
ttaaccacag	acttcttgta	ttttcttcac	cataacaata	gagaaaagta	cttttctttc	540
atattttccc	acctccta	ttgaacaact	attgtagctg	catattttct	caagaaagag	600
tacagtttcc	ttgccaggac	aacacgggata	agtgaaggc	ttctgtggct	gcttggtact	660
gaacaaatgg	agaagaaatg	aagggtgtca	gcactctcct	tcc		703

<210> 736

<211> 401

<212> DNA

<213> Homo sapiens

<400> 736

tttcgtctgg	cgtggacggt	tgtggtgggg	cgtgttggtc	cgcgctctca	gaactgtgct	60
gggaaggatg	gtagggcgac	tggggctcac	ctccgcaccg	ttgtaggacc	cggggtaggg	120
ttttgagccc	gtgggagctg	ccccacgcgg	cctcgtcctg	ccaacggtcg	gatggcggag	180
acgaaggacg	cagcgcagat	gttggtgacc	ttcaaggatg	tggctgtgac	ctttaccggg	240
gaggagtggg	gacagctgga	cctggcccag	aggaccctgt	accgagaggt	gatgctggag	300
acctgtgggc	ttctggtttc	actagggcat	cgggttccca	aaccagagtt	gggtccacctg	360
ctaaagcatg	ggcaggagct	gtggatagtg	aagagaggcc	t		401

<210> 737

<211> 933

<212> DNA

<213> Homo sapiens

<400> 737

agcggccgct	cgcccgtggt	gtgtgtcccc	ggtgtcaccg	agcgtgttgt	gtgtccgtgc	60
ggcgcggcgc	tcgtgtggct	ccctcgcgcc	caccacgctg	gccccggggc	cccggctcgc	120
ccttcccagg	gcgcggctgc	agcagagttt	cagaacaagc	ttcctggaac	ccatgaccca	180
tgaagtcttg	tcgacattta	taccgtctga	gggtagcagc	tcgaaagtag	aagaaagtgt	240
tgccaggggc	ggcagtatct	ctttgtgtga	ccctggcggc	ttatgggacg	ttggcttcag	300
acctttgtga	tacaccatgc	tgcgtgggac	gatgacggcg	tggagaggaa	tgaggcctga	360
ggtcacactg	gcttgccctc	tcctagccac	agcaggetgc	tttgctgact	tgaacgaggt	420
ccctcaggte	accgtccagc	ctgcgtccac	cgtccagaag	cccggaggca	ctgtgatctt	480
gggctgcgtg	gtggaacctc	caaggatgaa	tgtaacctgg	cgctggaatg	gaaaggagct	540
gaatggctcg	gatgatgtct	tgggtgtcct	catcacccac	gggacctcgc	tcatcactgc	600
ccttaacaac	cacactgtgg	gacggtacca	gtgtgtggcc	cggatgcctg	cgggggctgt	660
ggccagcgtg	ccagccactg	tgacactagc	cagtgaagtct	gctcctttgc	ctccctgcca	720
tgggtgcggtc	cctcctcatc	tctcccaccc	tgaagccccc	accattcatg	ctgcctcttg	780

ttactcttag	cataaaatgg	gccttaactg	cagaaatgtc	aaatcagaac	agtagctgcc	840
ttagtaatgc	ccagtgatgg	gggacccctt	gtgcccttgg	aaaacctcac	tccaagtaga	900
ggctgtatct	ggagtgagtg	tctacagaga	ggg			933

<210> 738
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 738						
ctggggtcgg	cggagacagc	tggtgtctga	agccgctcgc	gccaggggtg	accctgtttg	60
cagcacgatg	tctgaagaag	aggcggtcca	gatccccaga	tccagtgtgt	gggagcagga	120
ccagcagaac	gtggtgcagc	gtgtggtggc	tctgccccctg	gtcagggcca	cgtgcaccgc	180
ggtctgcgat	gtttacagt	cagccaagga	caggcaccgc	ctgctgggct	ccgctgccg	240
cctggctgag	aactgcgtgt	gcggcctgac	caccgctgcc	ctggaccacg	cccagccgct	300
gctcgagcac	ctgcagcccc	agctggccac	tatgaacagc	ctcgctgca	ggggcctgga	360
caagctggaa	gagaagcttc	cctttctcca	gcaaccttcg	gagacggtgg	tgacctcagc	420

<210> 739
 <211> 1248
 <212> DNA
 <213> Homo sapiens

<400> 739						
tttcgtagcg	agtaaagaag	cagatttgct	ctccctcccg	cttcctccct	cccatcttcc	60
caccggggct	gtgcccaggc	cacagagcag	ctgcaggcct	tgggagagga	cccacacagc	120
ctcctgtagg	tggcaacagt	gccacctgtt	tgactcatag	ggctgaaccg	aggactgaaa	180
aaggaggag	gcagaccact	cggagaggag	ctgggaagca	gtgcagagag	gagagcggag	240
cggagctgcc	gctgagcaaa	ggccttcacc	atggccgagt	cccccggtg	ctgctccgtc	300
tggggccgct	gcctccactg	cctgtatagc	tgccactgga	ggaaatgccc	cagagagagg	360
atgcaaacca	gcaagtgcga	ctgtatctgg	tttggcctgc	tcttcctcac	cttcctcctt	420
tccttgagct	ggctgtacat	cgggctcgtc	cttctcaatg	acctgcacaa	cttcaatgaa	480
ttcctcttcc	gccgctgggg	acactggatg	gactggctcc	tggcattcct	gctggtcata	540
tctctactgg	gcacatatgc	atccttgeta	ttggctcctg	ccctgctcct	gcggctttgt	600
agacagcccc	tgcatctgca	cagcctccac	aaggctgctg	tgctcctcat	tatgctgctt	660
gtggcggctg	gccttggtgg	actggacatc	caatggcagc	aggagaggca	tagcttgctg	720
gtgtcactgc	agactgcagg	tagctctgaa	ctccagcagt	caggccctaa	gaggaaagcg	780
gggaggggca	ctggagaaga	gcccacctca	ccagctcttg	tcacagggcc	acagccccat	840
tccttcatat	ttgagcagcc	gctggaattg	ccctcctggc	ctggcctgtg	gctgatacct	900
tctaccgtat	ccaccgaaga	gagcccaaga	ttctgctact	gctcctatct	tttggagttg	960
tcctggtcac	ctacttggtc	cccctatgca	tctcctcacc	ctgcatcatg	gaaccagag	1020
acttaccacc	caagcctggg	ctgggtgggac	accgaggggc	ccccatgctg	gctcccgaga	1080
acaccctgat	gtccttgctg	aagacagctg	aatgcggagc	tactgtgttt	gagactgatg	1140
tgatggtcag	ctccgatggg	gtccccctcc	tcatgcatga	tgagcacctc	agcaggacca	1200
cgaatgtagc	ctctgtattc	ccaaccgaa	tcacagccca	cagcagtg		1248

<210> 740
 <211> 185
 <212>Amino acid
 <213> Homo sapiens

<400> 740
 Phe Val Gly Arg Leu Leu Arg Leu Gly Glu Ala Leu Arg Leu Arg Pro
 1 5 10 15
 Asp Pro Ser Gly Gly Cys Arg Leu Gln Pro Ala Leu Val Gly Glu Thr
 20 25 30
 Glu Met Ser Glu Lys Glu Asn Asn Phe Pro Pro Leu Pro Lys Phe Ile
 35 40 45
 Pro Val Lys Pro Cys Phe Tyr Gln Asn Phe Ser Asp Glu Ile Pro Val
 50 55 60
 Glu His Gln Val Leu Val Lys Arg Ile Tyr Arg Leu Trp Met Phe Tyr
 65 70 75 80
 Cys Ala Thr Leu Gly Val Asn Leu Ile Ala Cys Leu Ala Trp Trp Ile
 85 90 95
 Gly Gly Gly Ser Gly Thr Asn Phe Gly Leu Ala Phe Val Trp Leu Leu
 100 105 110
 Leu Phe Thr Pro Cys Gly Tyr Val Cys Trp Phe Arg Pro Val Tyr Lys
 115 120 125
 Ala Phe Arg Ala Asp Ser Ser Phe Asn Phe Met Ala Phe Phe Phe Ile
 130 135 140
 Phe Arg Ser Pro Val Cys Pro Asp Arg His Pro Gly Asp Trp Leu Leu
 145 150 155 160
 Arg Leu Gly Arg Val Arg Leu Ala Val Gly Asn Trp Ile Leu Pro Val
 165 170 175
 Gln Pro Gly Arg Cys Arg Gly His Ala
 180 185

<210> 741
 <211> 177
 <212>Amino acid
 <213> Homo sapiens

<400> 741
 Phe Leu Gly Ala Gly Ala Asp Ile Phe Cys Ala Tyr Leu Arg Met Ser
 1 5 10 15
 Ser Lys Gln Ala Thr Ser Pro Phe Ala Cys Ala Ala Asp Gly Glu Asp
 20 25 30
 Ala Met Thr Gln Asp Leu Thr Ser Arg Glu Lys Glu Gly Ser Asp
 35 40 45
 Gln His Val Ala Ser His Leu Pro Leu His Pro Ile Met His Asn Lys
 50 55 60
 Pro His Ser Glu Glu Leu Pro Thr Leu Val Ser Thr Ile Gln Gln Asp
 65 70 75 80
 Ala Asp Trp Asp Ser Val Leu Ser Ser Gln Gln Arg Met Glu Ser Glu
 85 90 95
 Asn Asn Lys Leu Cys Ser Leu Tyr Ser Phe Arg Asn Thr Ser Thr Ser
 100 105 110
 Pro His Lys Pro Asp Glu Gly Ser Arg Asp Arg Glu Ile Met Thr Ser
 115 120 125

Val Thr Phe Gly Thr Pro Glu Arg Arg Lys Gly Ser Leu Ala Asp Val
 130 135 140
 Val Asp Thr Leu Lys Gln Lys Lys Leu Glu Glu Met Thr Arg Thr Glu
 145 150 155 160
 Gln Glu Asp Ser Ser Cys Met Glu Lys Leu Leu Ser Lys Asp Trp Lys
 165 170 175
 Glu
 177

<210> 742
 <211> 434
 <212> Amino acid
 <213> Homo sapiens

<400> 742
 Glu Gly Tyr Leu Thr Gly Arg Pro Thr Arg Pro Val Ala Val Arg Gly
 1 5 10 15
 Lys Ser Thr Ala Asp Leu Arg Met Met Gly Arg Ser Pro Gly Phe Ala
 20 25 30
 Met Gln His Ile Val Gly Val Pro His Val Leu Val Arg Arg Gly Leu
 35 40 45
 Leu Gly Arg Asp Leu Phe Met Thr Arg Thr Leu Cys Ser Pro Gly Pro
 50 55 60
 Ser Gln Pro Gly Glu Lys Arg Pro Glu Glu Val Ala Leu Gly Leu His
 65 70 75 80
 His Arg Leu Pro Ala Leu Gly Arg Ala Leu Gly His Ser Ile Gln Gln
 85 90 95
 Arg Ala Thr Ser Thr Ala Lys Thr Trp Trp Asp Arg Tyr Glu Glu Phe
 100 105 110
 Val Gly Leu Asn Glu Val Arg Glu Ala Gln Gly Lys Val Thr Glu Ala
 115 120 125
 Glu Lys Val Phe Met Val Ala Arg Gly Leu Val Arg Glu Ala Arg Glu
 130 135 140
 Asp Leu Glu Val His Gln Ala Lys Leu Lys Glu Val Arg Asp Arg Leu
 145 150 155 160
 Asp Arg Val Ser Arg Glu Asp Ser Gln Tyr Leu Glu Leu Ala Thr Leu
 165 170 175
 Glu His Arg Met Leu Gln Glu Glu Lys Arg Leu Arg Thr Ala Tyr Leu
 180 185 190
 Arg Ala Glu Asp Ser Glu Arg Glu Lys Phe Ser Leu Phe Ser Ala Ala
 195 200 205
 Val Arg Glu Ser His Glu Lys Glu Arg Thr Arg Ala Glu Arg Thr Lys
 210 215 220
 Asn Trp Ser Leu Ile Gly Ser Val Leu Gly Ala Leu Ile Gly Val Ala
 225 230 235 240
 Gly Ser Thr Tyr Val Asn Arg Val Arg Leu Gln Glu Leu Lys Ala Leu
 245 250 255
 Leu Leu Glu Ala Gln Lys Gly Pro Val Ser Leu Gln Glu Ala Ile Arg
 260 265 270
 Glu Gln Ala Ser Ser Tyr Ser Arg Gln Gln Arg Asp Leu His Asn Leu
 275 280 285
 Met Val Asp Leu Arg Gly Leu Val His Ala Ala Gly Pro Gly Gln Asp
 290 295 300
 Ser Gly Ser Gln Ala Gly Ser Pro Pro Thr Arg Asp Arg Asp Val Asp
 305 310 315 320
 Val Leu Ser Ala Ala Leu Lys Glu Gln Leu Ser His Ser Arg Gln Val
 325 330 335
 His Ser Cys Leu Glu Gly Leu Arg Glu Gln Leu Asp Gly Leu Glu Lys
 340 345 350

Thr Cys Ser Gln Met Ala Gly Val Val Gln Leu Val Lys Ser Ala Ala
 355 360 365
 His Pro Gly Leu Val Glu Pro Ala Asp Gly Ala Met Pro Ser Phe Leu
 370 375 380
 Leu Glu Gln Gly Ser Met Ile Leu Ala Leu Ser Asp Thr Glu Gln Arg
 385 390 395 400
 Leu Glu Ala Gln Val Asn Arg Asn Thr Ile Tyr Ser Thr Leu Val Thr
 405 410 415
 Cys Val Thr Phe Val Ala Thr Leu Pro Val Leu Tyr Met Leu Phe Lys
 420 425 430
 Ala Ser
 434

<210> 743
 <211> 211
 <212> Amino acid
 <213> Homo sapiens

<400> 743
 Asn Leu Pro Pro Leu Thr Pro Gln Pro Gly Pro Arg Leu Ala Gly Ser
 1 5 10 15
 Gly Pro Ser His Trp Phe Ser Pro Leu Ser Leu Pro Val Ala Ser Lys
 20 25 30
 Ala Pro Gly Thr Met Ala Gln Ala Leu Gly Glu Asp Leu Val Gln Pro
 35 40 45
 Pro Glu Leu Gln Asp Asp Ser Ser Ser Leu Gly Ser Asp Ser Glu Leu
 50 55 60
 Ser Gly Pro Gly Pro Tyr Arg Gln Ala Asp Arg Tyr Gly Phe Ile Gly
 65 70 75 80
 Gly Ser Ser Ala Glu Pro Gly Pro Gly His Pro Pro Ala Asp Leu Ile
 85 90 95
 Arg Gln Arg Glu Met Lys Trp Val Glu Met Thr Ser His Trp Glu Lys
 100 105 110
 Thr Met Ser Arg Arg Tyr Lys Lys Val Lys Met Gln Cys Arg Lys Gly
 115 120 125
 Ile Pro Ser Ala Leu Arg Ala Arg Cys Trp Pro Leu Leu Cys Gly Ala
 130 135 140
 His Val Cys Gln Lys Asn Ser Pro Gly Thr Tyr Gln Glu Leu Ala Glu
 145 150 155 160
 Ala Pro Gly Asp Pro Gln Trp Met Glu Thr Ile Gly Arg Asp Leu His
 165 170 175
 Arg Gln Phe Pro Leu His Glu Met Phe Val Ser Pro Gln Gly His Gly
 180 185 190
 Gln Gln Gly Leu Leu Gln Val Leu Lys Ala Tyr Thr Leu Tyr Arg Pro
 195 200 205
 Glu Gln Gly
 210 211

<210> 744
 <211> 55
 <212> Amino acid
 <213> Homo sapiens

<400> 744

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Leu Arg Gly Met Ala Ala Ala Ala Ala Gly Pro Ala Ala Ser Gln Arg
 1           5           10           15
Phe Phe Gln Ser Phe Ser Asp Ala Leu Ile Asp Gln Asp Pro Gln Ala
      20           25           30
Ala Leu Glu Val Gly Glu Pro Phe Leu Leu Pro Pro Leu Pro Ala Asp
      35           40           45
Pro Pro Pro Ser Ser Thr Ala
      50           55

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<210> 745
<211> 182
<212>Amino acid
<213> Homo sapiens

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<400> 745
Trp Ala Cys Phe Arg Ser Ala His Cys Ser Arg His Leu Arg Asn Arg
 1           5           10           15
Ile Phe Met Tyr Leu Tyr Trp Asp Lys Thr Arg Ser Pro Val Cys Lys
      20           25           30
Gly Pro Ala Leu Arg Glu Glu Arg Pro Gln Pro Arg Leu Lys Leu Glu
      35           40           45
Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu His Leu Asn Pro Asp Gln
      50           55           60
Leu Glu Ala Val Glu Lys Tyr Glu Glu Val Leu His Asn Leu Glu Phe
      65           70           75           80
Ala Lys Glu Leu Gln Lys Thr Phe Ser Gly Leu Ser Leu Asp Leu Leu
      85           90           95
Lys Ala Gln Lys Lys Ala Gln Arg Arg Glu His Met Leu Lys Leu Glu
      100          105          110
Ala Glu Lys Lys Lys Leu Arg Thr Ile Leu Gln Val Gln Tyr Val Leu
      115          120          125
Gln Asn Leu Thr Gln Glu His Val Gln Lys Asp Phe Lys Gly Gly Leu
      130          135          140
Asn Gly Ala Val Tyr Leu Pro Ser Lys Glu Leu Asp Tyr Leu Ile Lys
      145          150          155          160
Phe Ser Lys Leu Thr Cys Pro Glu Arg Asn Glu Ser Leu Arg Gln Thr
      165          170          175
Leu Glu Gly Ser Thr Val
      180          182

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<210> 746
<211> 136
<212>Amino acid
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(136)
<223> X = any amino acid or stop code

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<400> 746
Xaa Ala Gly Val Gln Met Lys Leu Glu Phe Leu Gln Arg Lys Phe Trp
 1           5           10           15
Ala Ala Thr Arg Gln Cys Ser Thr Val Asp Gly Pro Cys Thr Gln Ser

```

```

      20      25      30
Cys Glu Asp Ser Asp Leu Asp Cys Phe Val Ile Asp Asn Asn Gly Phe
      35      40      45
Ile Leu Ile Ser Lys Arg Ser Arg Glu Thr Gly Arg Phe Leu Gly Glu
      50      55      60
Val Asp Gly Ala Val Leu Thr Gln Leu Leu Ser Met Gly Val Phe Ser
      65      70      75      80
Gln Val Thr Met Tyr Asp Tyr Gln Ala Met Cys Lys Pro Ser Ser His
      85      90      95
His His Ser Ala Ala Gln Pro Leu Val Ser Pro Ile Ser Ala Phe Leu
      100      105      110
Thr Ala Thr Arg Trp Leu Leu Gln Glu Leu Val Leu Phe Leu Leu Glu
      115      120      125
Trp Ser Val Trp Gly Ser Xaa *
      130      135

```

<210> 747
 <211> 156
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 747
Cys Arg Gly Arg Leu Ala Gln Leu Glu Glu Ala Ala Val Ala Ala Thr
      1      5      10      15
Met Ser Ala Gly Asp Ala Val Cys Thr Gly Trp Leu Val Lys Ser Pro
      20      25      30
Pro Glu Arg Lys Leu Gln Arg Tyr Ala Trp Arg Lys Arg Trp Phe Val
      35      40      45
Leu Arg Arg Gly Arg Met Ser Gly Asn Pro Asp Val Leu Glu Tyr Tyr
      50      55      60
Arg Asn Lys His Ser Ser Lys Pro Ile Arg Val Ile Asp Leu Ser Glu
      65      70      75      80
Cys Ala Val Trp Lys His Val Gly Pro Ser Phe Val Arg Lys Glu Phe
      85      90      95
Gln Asn Asn Phe Val Phe Ile Val Lys Thr Thr Ser Arg Thr Phe Tyr
      100      105      110
Leu Val Ala Lys Thr Glu Gln Glu Met Gln Val Trp Val His Ser Ile
      115      120      125
Ser Gln Val Cys Asn Leu Gly His Leu Glu Asp Gly Ala Ala Asp Ser
      130      135      140
Met Glu Ser Leu Ser Tyr Thr Arg Ser Tyr Leu Gln
      145      150      155 156

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<210> 748
 <211> 55
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 748
Ile Pro Ala Val Pro Leu Thr Ser Cys Val Thr Val Gly Ser Tyr Ser
      1      5      10      15
Leu Ser Val Arg Asp Tyr Asp Pro Arg Gln Gly Asp Thr Val Lys His
      20      25      30
Tyr Lys Ile Arg Thr Leu Asp Lys Arg Gly Phe Tyr Ile Ser Pro Arg

```

35 40 45
Ser Thr Phe Ser Thr Leu Gln
50 55

```
<210> 749
<211> 381
<212>Amino acid
<213> Homo sapiens
```

<400> 749															
Lys 1	Asp	Ser	Val	Leu 5	Asn	Ile	Ala	Arg	Gly 10	Lys	Lys	Tyr	Gly	Glu 15	Lys
Thr	Lys	Arg	Val	Ser	Ser	Arg	Lys	Lys	Pro	Ala	Leu	Lys	Cys	Thr	Ser
			20				25				30				
Gln	Lys	Gln	Pro	Ala	Leu	Lys	Ala	Ile	Cys	Asp	Lys	Glu	Asp	Ser	Val
			35				40				45				
Pro	Asn	Thr	Ala	Thr	Glu	Lys	Lys	Asp	Glu	Gln	Ile	Ser	Gly	Thr	Val
			50				55				60				
Ser	Ser	Gln	Lys	Gln	Pro	Ala	Leu	Lys	Ala	Thr	Ser	Asp	Lys	Lys	Asp
			65				70				75				
Ser	Val	Ser	Asn	Ile	Pro	Thr	Glu	Ile	Lys	Asp	Gly	Gln	Gln	Ser	Gly
			85				90				95				
Thr	Val	Ser	Ser	Gln	Lys	Gln	Pro	Ala	Trp	Lys	Ala	Thr	Ser	Val	Lys
			100				105				110				
Lys	Asp	Ser	Val	Ser	Asn	Ile	Ala	Thr	Glu	Ile	Lys	Asp	Gly	Gln	Ile
			115				120				125				
Arg	Gly	Thr	Val	Ser	Ser	Gln	Arg	Gln	Pro	Ala	Leu	Lys	Ala	Thr	Gly
			130				135				140				
Asp	Glu	Lys	Asp	Ser	Val	Ser	Asn	Ile	Ala	Arg	Glu	Ile	Lys	Asp	Gly
			145				150				155				
Glu	Lys	Ser	Gly	Thr	Val	Ser	Pro	Gln	Lys	Gln	Ser	Ala	Gln	Lys	Val
			165				170				175				
Ile	Phe	Lys	Lys	Lys	Val	Ser	Leu	Leu	Asn	Ile	Ala	Thr	Arg	Ile	Thr
			180				185				190				
Gly	Gly	Trp	Lys	Ser	Gly	Thr	Glu	Tyr	Pro	Glu	Asn	Leu	Pro	Thr	Leu
			195				200				205				
Lys	Ala	Thr	Ile	Glu	Asn	Lys	Asn	Ser	Val	Leu	Asn	Thr	Ala	Thr	Lys
			210				215				220				
Met	Lys	Asp	Val	Gln	Thr	Ser	Thr	Pro	Glu	Gln	Asp	Leu	Glu	Met	Ala
			225				230				235				
Ser	Glu	Gly	Glu	Gln	Lys	Arg	Leu	Glu	Glu	Tyr	Glu	Asn	Asn	Gln	Pro
			245				250				255				
Gln	Val	Lys	Asn	Gln	Ile	His	Ser	Arg	Asp	Asp	Leu	Asp	Asp	Ile	Ile
			260				265				270				
Gln	Ser	Ser	Gln	Thr	Val	Ser	Glu	Asp	Gly	Asp	Ser	Leu	Cys	Cys	Asn
			275				280				285				
Cys	Lys	Asn	Val	Ile	Leu	Leu	Ile	Asp	Gln	His	Glu	Met	Lys	Cys	Lys
			290				295				300				
Asp	Cys	Val	His	Leu	Leu	Lys	Ile	Lys	Lys	Thr	Phe	Cys	Leu	Cys	Lys
			305				310				315				
Arg	Leu	Thr	Glu	Leu	Lys	Asp	Asn	His	Cys	Glu	Gln	Leu	Arg	Val	Lys
			325				330				335				
Ile	Arg	Lys	Leu	Lys	Asn	Lys	Ala	Ser	Val	Leu	Gln	Lys	Arg	Leu	Ser
			340				345				350				
Glu	Lys	Glu	Glu	Ile	Lys	Ser	Gln	Leu	Lys	His	Glu	Thr	Leu	Glu	Leu
			355				360				365				
Glu	Lys	Glu	Leu	Cys	Ser	Leu	Arg	Phe	Ala	Ile	Gln	Gln			
			370				375				380				

<210> 750
 <211> 296
 <212>Amino acid
 <213> Homo sapiens

<400> 750
 Ser Pro Leu Arg Tyr Arg Ala Gly Gln Ser Gly Ser Thr Ile Ser Ser
 1 5 10 15
 Ser Ser Cys Ala Met Trp Arg Cys Gly Gly Arg Gln Gly Leu Cys Val
 20 25 30
 Leu Arg Arg Leu Ser Gly Gly His Ala His His Arg Ala Trp Arg Trp
 35 40 45
 Asn Ser Asn Arg Ala Cys Glu Arg Ala Leu Gln Tyr Lys Leu Gly Asp
 50 55 60
 Lys Ile His Gly Phe Thr Val Asn Gln Val Thr Ser Val Pro Glu Leu
 65 70 75 80
 Phe Leu Thr Ala Val Lys Leu Thr His Asp Asp Thr Gly Ala Arg Tyr
 85 90 95
 Leu His Leu Ala Arg Glu Asp Thr Asn Asn Leu Phe Ser Val Gln Phe
 100 105 110
 Arg Thr Thr Pro Met Asp Ser Thr Gly Val Pro His Ile Leu Glu His
 115 120 125
 Thr Val Leu Cys Gly Ser Gln Lys Tyr Pro Cys Arg Asp Pro Phe Phe
 130 135 140
 Lys Met Leu Asn Arg Ser Leu Ser Thr Phe Met Asn Ala Phe Thr Ala
 145 150 155 160
 Ser Asp Tyr Thr Leu Tyr Pro Phe Ser Thr Gln Asn Pro Lys Asp Phe
 165 170 175
 Gln Asn Leu Leu Ser Val Tyr Leu Asp Ala Thr Phe Phe Pro Cys Leu
 180 185 190
 Arg Glu Leu Asp Phe Trp Gln Glu Gly Trp Arg Leu Glu His Glu Asn
 195 200 205
 Pro Ser Asp Pro Gln Thr Pro Leu Val Phe Lys Gly Val Val Phe Asn
 210 215 220
 Glu Met Lys Gly Ala Phe Thr Asp Asn Glu Arg Ile Phe Ser Gln His
 225 230 235 240
 Leu Gln Asn Arg Leu Leu Pro Asp His Thr Tyr Ser Val Val Ser Gly
 245 250 255
 Gly Asp Pro Leu Cys Ile Pro Glu Leu Thr Trp Glu Gln Leu Lys Gln
 260 265 270
 Phe His Ala Thr His Tyr His Pro Ser Asn Ala Arg Phe Phe Thr Tyr
 275 280 285
 Gly Asn Phe Pro Leu Asp Gln His
 290 295 296

<210> 751
 <211> 163
 <212>Amino acid
 <213> Homo sapiens

<400> 751
 Arg Gly Ala Lys Ala Lys Ser Ala Val Leu Pro Pro Gly Pro Pro Cys
 1 5 10 15
 Ser Ser Ile Leu Ile Leu Ser Pro Pro Ala Pro Leu Thr Pro Arg Ser

```

      20      25      30
Pro Gly Thr Glu Ala Thr Arg Pro Thr Ala Met Ser Lys Ser Leu Lys
      35      40      45
Lys Lys Ser His Trp Thr Ser Lys Val His Glu Ser Val Ile Gly Arg
      50      55      60
Asn Pro Glu Gly Gln Leu Gly Phe Glu Leu Lys Gly Gly Ala Glu Asn
      65      70      75      80
Gly Gln Phe Pro Tyr Leu Gly Glu Val Lys Pro Gly Lys Val Ala Tyr
      85      90      95
Glu Ser Gly Ser Lys Leu Val Ser Glu Glu Leu Leu Glu Val Asn
      100      105      110
Glu Thr Pro Val Ala Gly Leu Thr Ile Arg Asp Val Leu Ala Val Ile
      115      120      125
Lys His Cys Lys Asp Pro Leu Arg Leu Lys Cys Val Lys Gln Gly Glu
      130      135      140
Ser Ser Gly Leu Leu Ser Val Leu Pro Gly Gly Gly Thr Ala Arg Gly
      145      150      155      160
Ala Gly Gln
      163

```

<210> 752
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 752
Ser His Arg Pro Gln Pro Asp Ala Trp Arg Gln Gly Asn Ala Phe Gln
      1      5      10      15
Cys Val Gln Lys Glu Lys Met Gln Val Ser Ser Ala Glu Val Arg Ile
      20      25      30
Gly Pro Met Arg Leu Thr Gln Asp Pro Ile Gln Val Leu Leu Ile Phe
      35      40      45
Ala Lys Glu Asp Ser Gln Ser Asp Gly Phe Trp Trp Ala Cys Asp Arg
      50      55      60
Ala Gly Tyr Arg Cys Asn Ile Ala Arg Thr Pro Glu Ser Ala Leu Glu
      65      70      75      80
Cys Phe Leu Asp Lys His His Glu Ile Ile Val Ile Asp His Arg Gln
      85      90      95
Thr Gln Asn
      99

```

<210> 753
 <211> 193
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 753
Phe Arg Leu Ala Gly Cys Gly His Leu Leu Val Ser Leu Leu Gly Leu
      1      5      10      15
Leu Leu Leu Leu Ala Arg Ser Gly Thr Arg Ala Leu Val Cys Leu Pro
      20      25      30
Cys Asp Glu Ser Lys Cys Glu Glu Pro Arg Asn Cys Pro Gly Ser Ile
      35      40      45
Val Gln Gly Val Cys Gly Cys Cys Tyr Thr Cys Ala Ser Gln Arg Asn

```

```

      50              55              60
Glu Ser Cys Gly Gly Thr Phe Gly Ile Tyr Gly Thr Cys Asp Arg Gly
 65              70              75              80
Leu Arg Cys Val Ile Arg Pro Pro Leu Asn Gly Asp Ser Leu Thr Glu
      85              90              95
Tyr Glu Ala Gly Val Cys Glu Asp Glu Asn Trp Thr Asp Asp Gln Leu
      100              105              110
Leu Gly Phe Lys Pro Cys Asn Glu Asn Leu Ile Ala Gly Cys Asn Ile
      115              120              125
Ile Asn Gly Lys Cys Glu Cys Asn Thr Ile Arg Thr Cys Ser Asn Pro
      130              135              140
Phe Glu Phe Pro Ser Gln Asp Met Cys Leu Ser Ala Leu Lys Arg Ile
      145              150              155              160
Glu Glu Glu Lys Pro Asp Cys Ser Lys Ala Arg Cys Glu Val Gln Phe
      165              170              175
Ser Pro Arg Cys Pro Glu Asp Ser Val Leu Ile Glu Gly Tyr Ala Pro
      180              185              190
Pro
193

```

```

<210> 754
<211> 73
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 754
Phe Arg Met Ala Ala Asn Val Gly Ser Met Phe Gln Tyr Trp Lys Arg
 1              5              10              15
Phe Asp Leu Gln Gln Leu Gln Arg Glu Leu Asp Ala Thr Ala Thr Val
      20              25              30
Leu Ala Asn Arg Gln Asp Glu Ser Glu Gln Ser Arg Lys Arg Leu Ile
      35              40              45
Glu Gln Ser Arg Glu Phe Lys Lys Asn Thr Pro Glu Val Arg Arg Val
      50              55              60
Thr Ile Val Phe Ala Leu Lys Gly Ser
      65              70              73

```

```

<210> 755
<211> 83
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 755
Glu Thr Leu Ser Cys Arg Ile Met Asp His Pro Ser Arg Glu Lys Asp
 1              5              10              15
Glu Arg Gln Arg Thr Thr Lys Pro Met Ala Gln Arg Ser Ala His Cys
      20              25              30
Ser Arg Pro Ser Gly Ser Ser Ser Ser Ser Gly Val Leu Met Val Gly
      35              40              45
Pro Asn Phe Arg Val Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu
      50              55              60
Leu Arg Leu Gly Glu Gly Leu Pro Gln Val Tyr Phe Gly Pro Cys
      65              70              75              80
Gly Lys Tyr

```

83

<210> 756
 <211> 100
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(100)
 <223> X = any amino acid or stop code

<400> 756
 Gly Cys Cys Lys Asp Xaa His Ser Gly Val Ile Gly Arg Ser Trp Ala
 1 5 10 15
 Met Leu Phe Ala Ser Gly Gly Phe Gln Val Lys Leu Tyr Asp Ile Glu
 20 25 30
 Gln Gln Gln Ile Arg Asn Ala Leu Glu Asn Ile Arg Trp Ala Ser Arg
 35 40 45
 Arg Ser Pro Glu Gly Met Glu Val Gly Leu Phe Leu Ser Val Gly Leu
 50 55 60
 Val Cys His Ile Leu Lys Ala Met Arg Ile Cys Asp Val Thr Phe Ser
 65 70 75 80
 Ser Asp Gly Tyr Cys Ser Ala Ser Glu Leu Val Lys Ala Arg Pro Thr
 85 90 95
 Val Ala Gly Met
 100

<210> 757
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 757
 Asn Ser Arg Val Asp Asp Phe Val Ser Ala Arg Pro Lys Pro Arg Pro
 1 5 10 15
 Leu Pro Arg Ala Arg Gly Met Val Val Thr Gly Arg Glu Pro Asp
 20 25 30
 Ser Arg Arg Gln Asp Gly Ala Met Ser Ser Ser Asp Ala Glu Asp Asp
 35 40 45
 Phe Leu Glu Pro Ala Thr Pro Thr Ala Thr Gln Ala Gly His Ala Leu
 50 55 60
 Pro Pro Ala Ala Thr Gly Ser Phe Leu Arg Leu Phe Pro Leu Thr Ser
 65 70 75 80
 Glu Gly Leu Thr Ser Leu His Ala Cys Pro His Cys Gly Ala Thr Lys
 85 90 95
 Thr Pro Cys Trp Gln Pro Cys Ser Val Gly Gly Thr Thr Ser Pro Arg
 100 105 110
 Thr Pro Arg Ala Gly Thr Ser Ser Thr Glu Met Ala His Thr Leu Glu
 115 120 125
 Met Cys
 130

<210> 758
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

<400> 758
 Arg Ala Leu Trp Val Gly Gly Cys Ser Gly Glu Ala Cys Gly Ile Gly
 1 5 10 15
 Met Ser Gly Leu Leu Thr Asp Pro Glu Gln Arg Ala Gln Glu Pro Arg
 20 25 30
 Tyr Pro Gly Phe Val Leu Gly Leu Asp Val Gly Ser Ser Val Ile Arg
 35 40 45
 Cys His Val Tyr Asp Arg Ala Ala Arg Val Cys Gly Ser Ser Val Gln
 50 55 60
 Lys Val Glu Asn Leu Tyr Pro Gln Ile Gly Trp Val Glu Ile Asp Pro
 65 70 75 80
 Asp Val Leu Trp Ile Gln Phe Val Ala Val Ile Lys Glu Ala Val Lys
 85 90 95
 Ala Ala Gly Ile Gln Met Asn Gln Ile Val Gly Leu Gly Ile Ser Thr
 100 105 110
 Gln Arg Ala Thr Phe Ile Thr Trp Asn
 115 120 121

<210> 759
 <211> 210
 <212>Amino acid
 <213> Homo sapiens

<400> 759
 Gly Leu Ala Ala Glu Gln Ser Met Gln Phe Val Lys Leu Trp Cys Gly
 1 5 10 15
 Cys Ser Gly Glu Phe Pro Thr Arg Leu Arg Arg Arg Thr Pro Leu Thr
 20 25 30
 Glu Ala Met Glu Gly Gly Pro Ala Val Cys Cys Gln Asp Pro Arg Ala
 35 40 45
 Glu Leu Val Glu Arg Val Ala Ala Ile Asp Val Thr His Leu Glu Glu
 50 55 60
 Ala Asp Gly Gly Pro Glu Pro Thr Arg Asn Gly Val Asp Pro Pro Pro
 65 70 75 80
 Arg Ala Arg Ala Ala Ser Val Ile Pro Gly Ser Thr Ser Arg Leu Leu
 85 90 95
 Pro Ala Arg Pro Ser Leu Ser Ala Arg Lys Leu Ser Leu Gln Glu Arg
 100 105 110
 Pro Ala Gly Ser Tyr Leu Glu Ala Gln Ala Gly Pro Tyr Ala Thr Gly
 115 120 125
 Pro Ala Ser His Ile Ser Pro Arg Ala Trp Arg Arg Pro Thr Ile Glu
 130 135 140
 Ser His His Val Ala Ile Ser Asp Ala Glu Asp Cys Val Gln Leu Asn
 145 150 155 160
 Gln Tyr Lys Leu Gln Ser Glu Ile Gly Lys Gly Ala Tyr Gly Val Val
 165 170 175
 Arg Leu Ala Tyr Asn Glu Ser Glu Asp Arg His Tyr Ala Met Lys Val
 180 185 190
 Leu Ser Lys Lys Lys Leu Leu Lys Gln Tyr Gly Phe Pro Arg Arg Pro
 195 200 205

Pro Pro
210

<210> 760
<211> 172
<212>Amino acid
<213> Homo sapiens

<400> 760
Phe Val Tyr Gly Lys Pro Val Thr Leu Trp Pro Thr Ile Ser Ser Val
1 5 10 15
Val Pro Ser Thr Phe Leu Gly Leu Gly Asn Tyr Glu Val Glu Val Glu
20 25 30
Ala Glu Pro Asp Val Arg Gly Pro Glu Ile Val Thr Met Gly Glu Asn
35 40 45
Asp Pro Pro Ala Val Glu Ala Pro Phe Ser Phe Arg Ser Leu Phe Gly
50 55 60
Leu Asp Asp Leu Lys Ile Ser Pro Val Ala Pro Asp Ala Asp Ala Val
65 70 75 80
Ala Ala Gln Ile Leu Ser Leu Leu Pro Leu Lys Phe Phe Pro Ile Ile
85 90 95
Val Ile Gly Ile Ile Ala Leu Ile Leu Ala Leu Ala Ile Gly Leu Gly
100 105 110
Ile His Phe Asp Cys Ser Gly Lys Tyr Arg Cys Arg Ser Ser Phe Lys
115 120 125
Cys Ile Glu Leu Ile Ala Arg Cys Asp Gly Val Ser Asp Cys Lys Asp
130 135 140
Gly Glu Asp Glu Tyr Arg Cys Val Arg Val Gly Gly Gln Asn Ala Ala
145 150 155 160
Leu Gln Val Phe Thr Ala Ala Ser Arg Lys Thr Met
165 170 172

<210> 761
<211> 104
<212>Amino acid
<213> Homo sapiens

<400> 761
Ser Leu Ala Met Pro Phe Gly Cys Val Thr Leu Gly Asp Lys Lys Asn
1 5 10 15
Tyr Asn Gln Pro Ser Glu Val Thr Asp Arg Tyr Asp Leu Gly Gln Val
20 25 30
Ile Lys Thr Glu Glu Phe Cys Glu Ile Phe Arg Ala Lys Asp Lys Thr
35 40 45
Thr Gly Lys Leu His Thr Cys Lys Lys Phe Gln Lys Arg Asp Gly Arg
50 55 60
Lys Val Arg Lys Ala Ala Lys Asn Glu Ile Gly Ile Leu Lys Met Val
65 70 75 80
Lys His Pro Asn Ile Leu Gln Leu Val Asp Val Phe Val Thr Arg Lys
85 90 95
Glu Tyr Phe Ile Phe Leu Glu Leu
100 104

<210> 762
 <211> 249
 <212>Amino acid
 <213> Homo sapiens

<400> 762
 Gln Arg Arg Arg Phe Arg Ala Gly Leu Trp Gly Gly His Gly Leu Thr
 1 5 10 15
 Asp Gly Leu Arg Arg Asn Gly Gly Cys Gly Cys Ser Ala Arg Val Pro
 20 25 30
 Arg Val Gly Glu Arg Leu Arg Gly His Arg Cys Pro Asp Pro Leu Cys
 35 40 45
 Leu Leu Leu Asp Met Leu Phe Leu Ser Phe His Ala Gly Ser Trp Glu
 50 55 60
 Ser Trp Cys Cys Cys Cys Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg
 65 70 75 80
 Gly Gln His Trp Gln Leu Glu Met Ala Asp Thr Arg Ser Val His Glu
 85 90 95
 Thr Arg Phe Glu Ala Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn
 100 105 110
 Gly Ser Phe Gln Pro Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe
 115 120 125
 Tyr Lys Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe
 130 135 140
 Trp Asp Pro Ile Gly Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly
 145 150 155 160
 Asp Met Thr Lys Glu Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys
 165 170 175
 Lys Ile Ile Glu Thr Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu
 180 185 190
 Arg Val Ile Gly Pro Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly
 195 200 205
 Arg Ser Ser Asp Ile Thr Ser Asp Leu Gly Asn Val Leu Thr Ser Thr
 210 215 220
 Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu Ser Ser Asp Ser Gly
 225 230 235 240
 Ala Glu Ser Glu Glu Glu Ala Cys
 245 249

<210> 763
 <211> 184
 <212>Amino acid
 <213> Homo sapiens

<400> 763
 Ser Cys Phe Lys Gly Arg Thr Gly Gly Arg Ser Gly Ser Ser Gly Asp
 1 5 10 15
 Ser Ser Arg Trp Ala Arg Cys Gly Arg His Phe Ser Ala Ser Thr Glu
 20 25 30
 Glu Pro Pro Leu Ser Gln Pro Cys Ser Ala Leu Pro Arg Ser Gly Arg
 35 40 45
 Arg Gly Cys Ala Val Pro Ser Ser Val Thr Lys Met Leu Ser Phe Phe
 50 55 60
 Arg Arg Thr Leu Gly Arg Arg Ser Met Arg Lys His Ala Glu Lys Glu
 65 70 75 80

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<210> 764
<211> 138
<212> Amino acid
<213> Homo sapiens
```

```
<210> 765
<211> 168
<212> Amino acid
<213> Homo sapiens
```

419


```

Val Val Ile His Arg Ser Ala Gly Thr Gly Arg Ser Ser Thr Phe Ser
 65          70          75          80
Val Val His Thr Cys Leu Val Leu Met Glu Lys Gly Asp Asp Ile Asn
          85          90          95
Ile Lys Gln Val Leu Leu Asn Ile Arg Lys Phe Gln Met Gly Leu Ile
          100          105          110
Gln Thr Pro Asp Gln Leu Arg Phe Ser Tyr Met Ala Ile Thr Glu Gly
          115          120          125
Ala Lys Cys Val Lys Gly Asp Ser Ser Ile Gln Lys Arg Trp Lys Glu
          130          135          140
Leu Ser Lys Glu Asp Leu Pro Pro Ala Phe Asp His Ser Pro Asn Lys
          145          150          155          160
Ile Met Thr Glu Lys Tyr Asn Arg
          165          168

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<210> 766
<211> 255
<212>Amino acid
<213> Homo sapiens

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```

<400> 766
Leu Asn Arg Gln Arg Cys Gly Asp Gln Val Leu Val Pro Gly Thr Gly
 1          5          10          15
Leu Ala Ala Ile Leu Arg Thr Leu Pro Met Phe His Asp Glu Glu His
          20          25          30
Ala Arg Ala Arg Gly Leu Ser Glu Asp Thr Leu Val Leu Pro Pro Ala
          35          40          45
Ser Arg Asn Gln Arg Ile Leu Tyr Thr Val Leu Glu Cys Gln Pro Leu
          50          55          60
Phe Asp Ser Ser Asp Met Thr Ile Ala Glu Trp Val Cys Leu Ala Gln
          65          70          75          80
Thr Ile Lys Arg His Tyr Glu Gln Tyr His Gly Phe Val Val Ile His
          85          90          95
Gly Thr Asp Thr Met Ala Phe Ala Ala Ser Met Leu Ser Phe Met Leu
          100          105          110
Glu Asn Leu Gln Lys Thr Val Ile Leu Thr Gly Ala Gln Val Pro Ile
          115          120          125
His Ala Leu Trp Ser Asp Gly Arg Glu Asn Leu Leu Gly Ala Leu Leu
          130          135          140
Met Ala Gly Gln Tyr Val Ile Pro Glu Val Cys Leu Phe Phe Gln Asn
          145          150          155          160
Gln Leu Phe Arg Gly Asn Arg Ala Thr Lys Val Asp Ala Arg Arg Phe
          165          170          175
Ala Ala Phe Cys Ser Pro Asn Leu Leu Pro Leu Ala Thr Val Gly Ala
          180          185          190
Asp Ile Thr Ile Asn Arg Glu Leu Val Arg Lys Val Asp Gly Lys Ala
          195          200          205
Gly Leu Val Val His Ser Ser Met Glu Gln Asp Val Gly Leu Leu Arg
          210          215          220
Leu Tyr Pro Gly Ile Pro Ala Ala Leu Val Arg Ala Phe Leu Gln Pro
          225          230          235          240
Pro Leu Lys Gly Val Val Met Glu Thr Phe Gly Ser Gly Asn Gly
          245          250          255

```

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<210> 767
<211> 260
<212>Amino acid
<213> Homo sapiens

```

<400> 767

```

Leu Phe Arg Leu Ala Pro Gly Phe Leu Arg Ser Leu Ala Arg Gln Gly
 1           5           10           15
Tyr His Gln Ile Trp Ala Phe Pro Phe Leu Pro Ser Gly Ala Thr Ala
          20           25           30
Thr Trp Pro Ala Ala Ser Arg Ser Arg Ser Leu Ala Ala Arg Ser Leu
          35           40           45
Pro Arg Ser Pro Ala Arg Pro Gly Pro Asn Asp Ala Leu Leu Gly Glu
          50           55           60
His Asp Phe Arg Gly Gln Gly Val Arg Ala Gln Arg Phe Arg Phe Ser
          65           70           75           80
Glu Glu Pro Gly Pro Gly Ala Asp Gly Ala Val Leu Glu Val His Val
          85           90           95
Pro Gln Ile Gly Ala Gly Val Ser Leu Pro Gly Ile Leu Ala Ala Lys
          100          105          110
Cys Gly Ala Glu Val Ile Leu Ser Asp Ser Ser Glu Leu Pro His Cys
          115          120          125
Leu Glu Val Cys Arg Gln Ser Cys Gln Met Asn Asn Leu Pro His Leu
          130          135          140
Gln Val Val Gly Leu Thr Trp Gly His Ile Ser Trp Asp Leu Leu Ala
          145          150          155          160
Leu Pro Pro Gln Asp Ile Ile Leu Ala Ser Asp Val Phe Phe Glu Pro
          165          170          175
Glu Asp Phe Glu Asp Ile Leu Ala Thr Ile Tyr Phe Leu Met His Lys
          180          185          190
Asn Pro Lys Val Gln Leu Trp Ser Thr Tyr Gln Val Arg Ser Ala Asp
          195          200          205
Trp Ser Leu Glu Ala Leu Leu Tyr Lys Trp Asp Met Lys Cys Val His
          210          215          220
Ile Pro Leu Glu Ser Phe Asp Ala Asp Lys Glu Asp Ile Ala Glu Ser
          225          230          235          240
Thr Leu Pro Gly Arg His Thr Val Glu Met Leu Val Ile Ser Phe Ala
          245          250          255
Lys Asp Ser Leu
          260

```

<210> 768

<211> 200

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(200)

<223> X = any amino acid or stop code

<400> 768

```

Ser Phe Ile Tyr Lys His Thr His Arg Ala Arg Phe Gly Pro Arg Ala
 1           5           10           15
Ile Val Ala Ser Pro Ala Leu Thr Ala Gly Pro His Val Ser Leu Thr
          20           25           30
Ala Ser Cys Arg Val Gly Met Trp Val Ser Cys Ser Pro Ser Pro Phe
          35           40           45
Leu His Pro Thr Asn Thr Leu Val Ala Val Leu Glu Arg Asp Thr Leu

```

```

      50              55              60
Gly Ile Arg Glu Val Arg Leu Phe Asn Ala Val Val Arg Trp Ser Glu
 65              70              75              80
Ala Glu Cys Gln Arg Gln Gln Leu Gln Val Thr Pro Glu Asn Arg Arg
      85              90              95
Lys Val Leu Gly Lys Ala Leu Gly Leu Ile Arg Phe Pro Leu Met Thr
      100              105              110
Ile Glu Glu Phe Ala Ala Gly Asn Arg Ala Arg Ala Gln Gly Leu Val
      115              120              125
Trp Glu Gly Ser Gly Thr Gln Val Gly Ile Trp Cys Thr Glu Asp Ser
      130              135              140
Ala Pro Glu Phe Thr Ala Glu Ser Leu Ala Asp Ala Trp His Ile Gln
      145              150              155              160
Ile Gly Arg Asn Leu Ala Cys Glu Asp Ala Ser Thr Trp Ala Ile Cys
      165              170              175
Xaa Pro Arg Pro Gly Ser Val Pro Thr Val His Thr Ala Arg Pro Arg
      180              185              190
Leu Ser Cys Leu Ser Ser Cys Phe
      195              200

```

```

<210> 769
<211> 33
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(33)
<223> X = any amino acid or stop code

```

```

      <400> 769
Met Ala Ser Thr Gln Asp Ala Glu Leu Ala Val Ser Arg Xaa Arg Ala
  1              5              10              15
Ile Ala Leu Xaa Pro Gly Xaa Gln Ser Xaa Xaa Pro Ser Gln Lys Lys
      20              25              30
Lys
 33

```

```

<210> 770
<211> 599
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 770
Leu Leu Lys Ser Cys Gly Val Leu Leu Ser Gly Val Cys Ile Pro Cys
  1              5              10              15
Glu Gly Lys Gly Pro Thr Val Leu Val Ile Gln Thr Ala Val Pro Gln
      20              25              30
Asp Arg Pro Thr Lys Ser Ser Met Arg Ser Ala Ala Lys Pro Trp Asn
      35              40              45
Pro Ala Ile Arg Ala Gly Gly His Gly Pro Asp Arg Val Arg Pro Leu
      50              55              60
Pro Ala Ala Ser Ser Gly Met Lys Ser Ser Lys Ser Ser Thr Ser Leu
      65              70              75              80

```

Ala Phe Glu Ser Arg Leu Ser Arg Leu Lys Arg Ala Ser Ser Glu Asp
 85 90 95
 Thr Leu Asn Lys Pro Gly Ser Thr Ala Ala Ser Gly Val Val Arg Leu
 100 105 110
 Lys Lys Thr Ala Thr Ala Gly Ala Ile Ser Glu Leu Thr Glu Ser Arg
 115 120 125
 Leu Arg Ser Gly Thr Gly Ala Phe Thr Thr Thr Lys Arg Thr Gly Ile
 130 135 140
 Pro Ala Pro Arg Glu Phe Ser Val Thr Val Ser Arg Glu Arg Ser Val
 145 150 155 160
 Pro Arg Gly Pro Ser Asn Pro Arg Lys Ser Val Ser Ser Pro Thr Ser
 165 170 175
 Ser Asn Thr Pro Thr Pro Thr Lys His Leu Arg Thr Pro Ser Thr Lys
 180 185 190
 Pro Lys Gln Glu Asn Glu Gly Gly Glu Lys Val Arg Leu Ser Pro Lys
 195 200 205
 Phe Arg Glu Leu Leu Ala Glu Ala Lys Ala Lys Asp Ser Glu Ile Asn
 210 215 220
 Arg Leu Arg Ser Glu Leu Lys Lys Tyr Lys Glu Lys Arg Thr Leu Asn
 225 230 235 240
 Ala Glu Gly Thr Asp Ala Leu Gly Pro Asn Val Asp Gly Thr Ser Val
 245 250 255
 Ser Pro Gly Asp Thr Glu Pro Met Ile Arg Ala Leu Glu Glu Lys Asn
 260 265 270
 Lys Asn Phe Gln Lys Glu Leu Ser Asp Leu Glu Glu Glu Asn Arg Val
 275 280 285
 Leu Lys Glu Lys Leu Ile Tyr Leu Glu His Ser Pro Asn Ser Glu Gly
 290 295 300
 Ala Ala Ser His Thr Gly Asp Ser Ser Cys Pro Thr Ser Ile Thr Gln
 305 310 315 320
 Glu Ser Ser Phe Gly Ser Pro Thr Gly Asn Gln Leu Ser Ser Asp Ile
 325 330 335
 Asp Glu Tyr Lys Lys Asn Ile His Gly Asn Ala Leu Arg Thr Ser Gly
 340 345 350
 Ser Ser Ser Ser Asp Val Thr Lys Ala Ser Leu Ser Pro Asp Ala Ser
 355 360 365
 Asp Phe Glu His Ile Thr Ala Glu Thr Pro Ser Arg Pro Leu Ser Ser
 370 375 380
 Thr Ser Asn Pro Phe Lys Ser Ser Lys Cys Ser Thr Ala Gly Ser Ser
 385 390 395 400
 Pro Asn Ser Val Ser Glu Leu Ser Leu Ala Ser Leu Thr Glu Lys Ile
 405 410 415
 Gln Lys Met Glu Glu Asn His His Ser Thr Ala Glu Glu Leu Gln Ala
 420 425 430
 Thr Leu Gln Glu Leu Ser Asp Gln Gln Gln Met Val Gln Glu Leu Thr
 435 440 445
 Ala Glu Asn Glu Lys Leu Val Asp Glu Lys Thr Ile Leu Glu Thr Ser
 450 455 460
 Phe His Gln His Arg Glu Arg Ala Glu Gln Leu Ser Gln Glu Asn Glu
 465 470 475 480
 Lys Leu Met Asn Leu Leu Gln Glu Arg Val Lys Asn Glu Glu Pro Thr
 485 490 495
 Thr Gln Glu Gly Lys Ile Ile Glu Leu Glu Gln Lys Cys Thr Gly Ile
 500 505 510
 Leu Glu Gln Gly Arg Phe Glu Arg Glu Lys Leu Leu Asn Ile Gln Gln
 515 520 525
 Gln Leu Thr Cys Ser Leu Arg Lys Val Glu Glu Glu Asn Gln Gly Ala
 530 535 540
 Leu Glu Met Ile Lys Arg Leu Lys Glu Glu Asn Glu Lys Leu Asn Glu
 545 550 555 560
 Phe Leu Glu Leu Glu Arg His Asn Asn Asn Met Met Ala Lys Thr Leu
 565 570 575
 Glu Glu Cys Arg Val Thr Leu Glu Gly Leu Lys Met Glu Asn Gly Ser
 580 585 590

Leu Lys Ser His Leu Gln Gly
595 599

<210> 771
<211> 103
<212> Amino acid
<213> Homo sapiens

<400> 771
Ser Gln Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn
1 5 10 15
Phe Cys Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile
20 25 30
Lys Ala Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu
35 40 45
Thr Asp Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly
50 55 60
Tyr Val Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu
65 70 75 80
Leu Thr Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val
85 90 95
Phe Asp Asn Gln Phe Gly Leu
100 103

<210> 772
<211> 218
<212> Amino acid
<213> Homo sapiens

<400> 772
Pro Phe Lys Lys Met Thr Asp Leu Leu Arg Ser Val Val Thr Val Ile
1 5 10 15
Asp Val Phe Tyr Lys Tyr Thr Lys Gln Asp Gly Glu Cys Gly Thr Leu
20 25 30
Ser Lys Gly Glu Leu Lys Glu Leu Leu Glu Lys Glu Leu His Pro Val
35 40 45
Leu Lys Asn Pro Asp Asp Pro Asp Thr Val Asp Val Ile Met His Met
50 55 60
Leu Asp Arg Asp His Asp Arg Arg Leu Asp Phe Thr Glu Phe Leu Leu
65 70 75 80
Met Ile Phe Lys Leu Thr Met Ala Cys Asn Lys Val Leu Ser Lys Glu
85 90 95
Tyr Cys Lys Ala Ser Gly Ser Lys Lys His Arg Arg Gly His Arg His
100 105 110
Gln Glu Glu Glu Ser Glu Thr Glu Glu Asp Glu Glu Thr Pro Gly
115 120 125
His Lys Ser Gly Tyr Arg His Ser Ser Trp Ser Glu Gly Glu Glu His
130 135 140
Gly Tyr Ser Ser Gly His Ser Arg Gly Thr Val Lys Cys Arg His Gly
145 150 155 160
Ser Asn Ser Arg Arg Leu Gly Arg Gln Gly Asn Leu Ser Ser Ser Gly
165 170 175
Asn Gln Glu Gly Ser Gln Lys Arg Tyr His Arg Ser Ser Cys Gly His
180 185 190

Ser Trp Ser Gly Gly Lys Asp Arg His Gly Ser Ser Ser Val Glu Leu
 195 200 205
 Arg Glu Arg Ile Asn Lys Ser His Ile Lys
 210 215 218

<210> 773
 <211> 130
 <212> Amino acid
 <213> Homo sapiens

<400> 773
 Val Pro Lys Ile Ser Gly Pro Asp His Ile Asp Phe Ile Pro Trp Asp
 1 5 10 15
 Gln Leu Phe Met Ala Ser Ser Ser Ser Val Thr Glu Phe Leu Val Leu
 20 25 30
 Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Val Leu Phe Ala Val Phe
 35 40 45
 Leu Cys Leu Tyr Leu Ile Ile Leu Ser Gly Asn Ile Ile Ile Ile Ser
 50 55 60
 Val Ile His Leu Asp His Ser Leu His Thr Pro Met Tyr Phe Phe Leu
 65 70 75 80
 Gly Ile Leu Ser Ile Ser Glu Ile Phe Tyr Thr Thr Val Ile Leu Pro
 85 90 95
 Lys Met Leu Ile Asn Leu Phe Ser Val Phe Arg Thr Leu Ser Phe Val
 100 105 110
 Ser Cys Ala Thr Gln Met Phe Tyr Glu Ile Val Gly Pro Gly Thr Gln
 115 120 125
 Glu Arg
 130

<210> 774
 <211> 204
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> X = any amino acid or stop code

<400> 774
 Asp His Ser Thr Glu Thr Pro Gly Ile Pro Ala Ala Glu Pro Val Ser
 1 5 10 15
 His Gly Thr Gly Lys Leu Glu Arg Ala Pro Thr Leu Pro Ala Gly Ala
 20 25 30
 Glu Leu Pro Ala Pro Ala Ala Val Pro Cys Pro Thr Leu Xaa Val Cys
 35 40 45
 Leu Tyr Pro Gln Leu Leu Gly Leu Ser Val Ala Thr Met Val Thr Leu
 50 55 60
 Thr Tyr Phe Gly Ala His Phe Ala Val Ile Arg Arg Ala Ser Leu Glu
 65 70 75 80
 Lys Asn Pro Tyr Gln Ala Val His Gln Trp Gly Thr Gln Gln Arg Leu
 85 90 95
 Ile Gln His Pro Glu Ser Gly Ser Glu Gly Gln Ser Leu Leu Gly Pro

```

      100      105      110
Leu Arg Ala Phe Ser Ala Gly Leu Ser Leu Val Gly Leu Leu Thr Leu
      115      120      125
Gly Ala Val Leu Ser Ala Ala Thr Val Arg Glu Ala Gln Gly Leu
      130      135      140
Met Ala Gly Gly Phe Leu Cys Phe Ser Leu Ala Phe Cys Ala Gln Val
      145      150      155      160
Gln Val Val Phe Trp Arg Leu His Ser Pro Thr Gln Val Glu Asp Ala
      165      170      175
Met Leu Asp Thr Tyr Asp Leu Val Tyr Glu Gln Ala Met Lys Gly Thr
      180      185      190
Ser His Val Arg Arg Gln Glu Leu Ala Ala Ile Gln
      195      200      204

```

<210> 775
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 775
Gln Pro Gly Tyr Ser Glu Tyr Asp Lys Asn Arg Gly Gln Gly Met Leu
      1      5      10      15
Leu Asn Met Met Cys Gly Arg Gln Leu Ser Ala Ile Ser Leu Cys Leu
      20      25      30
Ala Val Thr Phe Ala Pro Leu Phe Asn Ala Gln Ala Asp Glu Pro Glu
      35      40      45
Val Ile Pro Gly Asp Ser Pro Val Ala Val Ser Glu Gln Gly Glu Ala
      50      55      60
Leu Pro Gln Ala Gln Ala Thr Ala Ile Met Ala Gly Ile Gln Pro Leu
      65      70      75      80
Pro Glu Gly Ala Ala Glu Lys Ala Arg Thr Gln Ile Glu Ser Gln Leu
      85      90      95
Pro Ala Gly Tyr Lys Pro Val Tyr Leu Asn Gln Leu Gln Leu Leu Tyr
      100      105      110
Ala Ala Arg Gly Ile Ser Cys Ser Val
      115      120 121

```

<210> 776
 <211> 142
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 776
Arg Thr Arg Ala Ala Asp Val Tyr Val Phe Ser Leu Thr Gly Lys Ser
      1      5      10      15
Arg Asn Val Ser Ser Thr Val Arg Arg Ser Ala Val Gly Gly Met
      20      25      30
Ser Ala Leu Ala Leu Phe Asp Leu Leu Lys Pro Asn Tyr Ala Leu Ala
      35      40      45
Thr Gln Val Glu Phe Thr Asp Pro Glu Ile Val Ala Glu Tyr Ile Thr
      50      55      60
Tyr Pro Ser Pro Asn Gly His Gly Glu Val Arg Gly Tyr Leu Val Lys
      65      70      75      80
Pro Ala Lys Met Ser Gly Lys Thr Pro Ala Val Val Val His Glu

```

```

      85      90      95
Asn Arg Gly Leu Asn Pro Tyr Ile Glu Asp Val Ala Arg Arg Val Ala
      100      105      110
Lys Ala Gly Tyr Ile Ala Leu Ala Pro Asp Gly Leu Ser Ser Val Gly
      115      120      125
Gly Tyr Pro Gly Asn Asp Ile Lys Val Val Ser Ala Ala Ala
      130      135      140      142

```

<210> 777
 <211> 150
 <212>Amino acid
 <213> Homo sapiens

```

<400> 777
Val Lys Gln Arg His Gly Asn Ser Leu Leu Thr Thr Glu Thr Lys Cys
  1      5      10      15
Ile Ser Cys Arg Leu Gly Val Pro Leu Ser Pro Gln Arg Arg Phe Gln
      20      25      30
Ala Ile Arg Ile Glu Glu Val Lys Leu Arg Trp Phe Ala Phe Leu Ile
      35      40      45
Val Leu Leu Ala Gly Cys Ser Ser Lys His Asp Tyr Thr Asn Pro Pro
      50      55      60
Trp Asn Ala Lys Val Pro Val Gln Arg Ala Met Gln Trp Met Pro Ile
      65      70      75      80
Ser Gln Lys Ala Gly Ala Ala Trp Gly Val Asp Pro Gln Leu Ile Thr
      85      90      95
Ala Ile Ile Ala Ile Glu Ser Gly Gly Asn Pro Asn Ala Val Ser Lys
      100      105      110
Ser Asn Ala Ile Gly Leu Met Gln Leu Lys Ala Ser Thr Ser Gly Arg
      115      120      125
Asp Val Tyr Arg Arg Met Gly Trp Ser Gly Glu Pro Thr Thr Ser Glu
      130      135      140
Leu Lys Asn Ser Ser Arg
      145      150

```

<210> 778
 <211> 296
 <212>Amino acid
 <213> Homo sapiens

```

<400> 778
His Ala Ala Gly Ile Arg His Glu Ala Lys Pro Lys Arg Ser Phe Tyr
  1      5      10      15
Ala Ala Arg Asp Leu Tyr Lys Tyr Arg His Gln Tyr Pro Asn Phe Lys
      20      25      30
Asp Ile Arg Tyr Gln Asn Asp Leu Ser Asn Leu Arg Phe Tyr Lys Asn
      35      40      45
Lys Ile Pro Phe Lys Pro Asp Gly Val Tyr Ile Glu Glu Val Leu Ser
      50      55      60
Lys Trp Lys Gly Asp Tyr Glu Lys Leu Glu His Asn His Thr Tyr Ile
      65      70      75      80
Gln Trp Leu Phe Pro Leu Arg Glu Gln Gly Leu Asn Phe Tyr Ala Lys
      85      90      95
Glu Leu Thr Thr Tyr Glu Ile Glu Glu Phe Lys Lys Thr Lys Glu Ala

```



```

      100      105      110
Ile Arg Arg Phe Leu Leu Ala Tyr Lys Met Met Leu Glu Phe Phe Gly
      115      120      125
Ile Lys Leu Thr Asp Lys Thr Gly Asn Val Ala Arg Ala Val Asn Trp
      130      135      140
Gln Glu Arg Phe Gln His Leu Asn Glu Ser Gln His Asn Tyr Leu Arg
      145      150      155      160
Ile Thr Arg Ile Leu Lys Ser Leu Gly Glu Leu Gly Tyr Glu Ser Phe
      165      170      175
Lys Ser Pro Leu Val Lys Phe Ile Leu His Glu Ala Leu Val Glu Asn
      180      185      190
Thr Ile Pro Asn Ile Lys Gln Ser Ala Leu Glu Tyr Phe Val Tyr Thr
      195      200      205
Ile Arg Asp Arg Arg Glu Arg Arg Lys Leu Leu Arg Phe Ala Gln Lys
      210      215      220
His Tyr Thr Pro Ser Glu Asn Phe Ile Trp Gly Pro Pro Arg Lys Glu
      225      230      235      240
Gln Ser Glu Gly Ser Lys Ala Gln Lys Met Ser Ser Pro Leu Ala Ser
      245      250      255
Ser His Asn Ser Gln Thr Ser Met His Lys Lys Ala Lys Asp Ser Lys
      260      265      270
Asn Ser Ser Ser Ala Val His Leu Asn Ser Lys Thr Ala Glu Asp Lys
      275      280      285
Lys Val Ala Pro Lys Glu Pro Val
      290      295 296

```

<210> 779
 <211> 90
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 779
Glu Leu Gln Val Phe Gln Pro Ile Gly Gly Met Ser Asp Ser Gly Ser
  1          5          10          15
Gln Leu Gly Ser Met Gly Ser Leu Thr Met Lys Ser Gln Leu Gln Ile
      20      25      30
Thr Val Ile Ser Ala Lys Leu Lys Glu Asn Lys Lys Asn Trp Phe Gly
      35      40      45
Pro Ser Pro Tyr Val Glu Val Thr Val Asp Gly Gln Ser Lys Lys Thr
      50      55      60
Glu Lys Cys Asn Asn Thr Asn Ser Pro Lys Trp Lys Gln Pro Leu Thr
      65      70      75      80
Val Ile Val Thr Pro Val Ser Lys Leu His
      85      90

```

<210> 780
 <211> 88
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 780
Ile Glu Thr Leu Ser Phe Val Ile Arg Asn Trp Asn Thr His Ala Met
  1          5          10          15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp

```

```

      20      25      30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
      35      40      45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
      50      55      60
Thr Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
      65      70      75      80
Ser Val Cys Glu Glu Ala Ser Cys
      85      88

```

<210> 781
 <211> 35
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 781
Pro Arg Met Val Leu Gly Lys Pro Gln Thr Asp Pro Thr Leu Glu Trp
  1      5      10      15
Phe Leu Ser His Cys His Ile His Lys Tyr Pro Ser Lys Ser Thr Leu
      20      25      30
Ile Pro Gln
      35

```

<210> 782
 <211> 145
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 782
Gly Leu Arg Ile Ser Val Gln Glu Arg Ile Lys Ala Cys Phe Thr Glu
  1      5      10      15
Ser Ile Gln Thr Gln Ile Ala Ala Glu Ala Leu Pro Asp Ala Ile
      20      25      30
Ser Arg Ala Ala Met Thr Leu Val Gln Ser Leu Leu Asn Gly Asn Lys
      35      40      45
Ile Leu Cys Cys Gly Asn Gly Thr Ser Ala Ala Asn Ala Gln His Phe
      50      55      60
Ala Ala Ser Met Ile Asn Arg Phe Glu Thr Glu Arg Pro Ser Leu Pro
      65      70      75      80
Ala Ile Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn
      85      90      95
Asp Arg Leu His Asp Glu Val Tyr Ala Lys Gln Val Arg Ala Leu Gly
      100      105      110
His Ala Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg
      115      120      125
Asp Ile Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Thr Thr Ile
      130      135      140
Val
145

```

<210> 783
 <211> 102
 <212>Amino acid

<213> Homo sapiens

<400> 783

```

Lys Gln Thr Gln His Ala Pro Gly Met Met Lys Lys Tyr Leu Ala Leu
 1          5          10          15
Ala Leu Ile Ala Pro Leu Leu Ile Ser Cys Ser Thr Thr Lys Lys Gly
      20          25          30
Asp Thr Tyr Asn Glu Ala Trp Val Lys Asp Thr Asn Gly Phe Asp Ile
      35          40          45
Leu Met Gly Gln Phe Ala His Asn Ile Glu Asn Ile Trp Gly Phe Lys
      50          55          60
Glu Val Val Ile Ala Gly Pro Lys Asp Tyr Val Lys Tyr Thr Asp Gln
      65          70          75          80
Tyr Gln Thr Arg Ser His Ile Asn Phe Asp Asp Gly Thr Ile Thr Ile
      85          90          95
Glu Pro Ile Pro Gly Thr
      100          102

```

<210> 784

<211> 78

<212>Amino acid

<213> Homo sapiens

<400> 784

```

Thr Asp Arg Thr Ala Leu Asn Pro Gly Gln Glu Ser Ala Met Asn Arg
 1          5          10          15
Leu Phe Ser Gly Arg Ser Asp Met Pro Phe Ala Leu Leu Leu Ala
      20          25          30
Pro Ser Leu Leu Leu Leu Gly Gly Leu Val Ala Trp Pro Met Val Ser
      35          40          45
Asn Ile Glu Ile Ser Phe Leu Arg Leu Pro Leu Asn Pro Asn Ile Glu
      50          55          60
Ser Thr Phe Val Gly Val Ser Asn Tyr Val Arg Ile Leu Ser
      65          70          75          78

```

<210> 785

<211> 148

<212>Amino acid

<213> Homo sapiens

<400> 785

```

Lys Glu Leu Val Asp Glu Lys Ser Glu Arg Gly Arg Ala Met Asp Pro
 1          5          10          15
Val Ser Gln Leu Ala Ser Ala Gly Thr Phe Arg Val Leu Lys Glu Pro
      20          25          30
Leu Ala Phe Leu Arg Ala Leu Glu Leu Leu Phe Ala Ile Phe Ala Phe
      35          40          45
Ala Thr Cys Gly Gly Tyr Ser Gly Gly Leu Arg Leu Ser Val Asp Cys
      50          55          60
Val Asn Lys Thr Glu Ser Asn Leu Ser Ile Asp Ile Ala Phe Ala Tyr

```

```

65          70          75          80
Pro Phe Arg Leu His Gln Val Thr Phe Glu Val Pro Thr Cys Glu Gly
      85          90          95
Lys Glu Arg Gln Lys Leu Ala Leu Ile Gly Asp Ser Ser Ser Ser Ala
      100          105          110
Glu Phe Phe Val Thr Val Ala Val Phe Ala Phe Leu Tyr Ser Leu Ala
      115          120          125
Ala Thr Gly Arg Tyr Ile Phe Phe His Asn Lys Asn Arg Glu Asn Asn
      130          135          140
Arg Gly Pro Leu
145          148

```

```

<210> 786
<211> 246
<212>Amino acid
<213> Homo sapiens

```

```

<400> 786
Leu Gly Thr Val Ser Tyr Gly Ala Asp Thr Met Asp Glu Ile Gln Ser
 1          5          10          15
His Val Arg Asp Ser Tyr Ser Gln Met Gln Ser Gln Ala Gly Gly Asn
      20          25          30
Asn Thr Gly Ser Thr Pro Leu Arg Lys Ala Gln Ser Ser Ala Pro Lys
      35          40          45
Val Arg Lys Ser Val Ser Ser Arg Ile His Glu Ala Val Lys Ala Ile
      50          55          60
Val Leu Cys His Asn Val Thr Pro Val Tyr Glu Ser Arg Ala Gly Val
 65          70          75          80
Thr Glu Glu Thr Glu Phe Ala Glu Ala Asp Gln Asp Phe Ser Asp Glu
      85          90          95
Asn Arg Thr Tyr Gln Ala Ser Ser Pro Asp Glu Val Ala Leu Val Gln
      100          105          110
Trp Thr Glu Ser Val Gly Leu Thr Leu Val Ser Arg Asp Leu Thr Ser
      115          120          125
Met Gln Leu Lys Thr Pro Ser Gly Gln Val Leu Ser Phe Cys Ile Leu
      130          135          140
Gln Leu Phe Pro Phe Thr Ser Glu Ser Lys Arg Met Gly Val Ile Val
145          150          155          160
Arg Asp Glu Ser Thr Ala Glu Ile Thr Phe Tyr Met Lys Gly Ala Asp
      165          170          175
Val Ala Met Ser Pro Ile Val Gln Tyr Asn Asp Trp Leu Glu Glu Glu
      180          185          190
Cys Gly Asn Met Ala Arg Glu Gly Leu Arg Thr Leu Val Val Ala Lys
      195          200          205
Lys Ala Leu Thr Glu Glu Gln Tyr Gln Asp Phe Glu Val Ser Arg Leu
      210          215          220
Pro Gly Ile Pro Ser Ser Tyr Asp Gly Ala Phe Leu Thr Leu Lys Leu
225          230          235          240
Val Leu Pro Val Phe Val
      245 246

```

```

<210> 787
<211> 176
<212>Amino acid
<213> Homo sapiens

```

<400> 787

Glu Gly Pro His Arg Arg Leu Phe Gln Met Val Lys Ala Leu Gln Glu
 1 5 10 15
 Ala Pro Glu Asp Pro Asn Gln Ile Leu Ile Gly Tyr Ser Arg Gly Leu
 20 25 30
 Val Val Ile Trp Asp Leu Gln Gly Ser Arg Val Leu Tyr His Phe Leu
 35 40 45
 Ser Ser Gln Gln Leu Glu Asn Ile Trp Trp Gln Arg Asp Gly Arg Leu
 50 55 60
 Leu Val Ser Cys His Ser Asp Gly Ser Tyr Cys Gln Trp Pro Val Ser
 65 70 75 80
 Ser Glu Ala Gln Gln Pro Glu Pro Leu Arg Ser Leu Val Pro Tyr Gly
 85 90 95
 Pro Phe Pro Cys Lys Ala Ile Thr Arg Ile Leu Trp Leu Thr Thr Arg
 100 105 110
 Gln Gly Leu Pro Phe Thr Ile Phe Gln Gly Gly Met Pro Arg Ala Ser
 115 120 125
 Tyr Gly Asp Arg His Cys Ile Ser Val Ile His Asp Gly Gln Gln Thr
 130 135 140
 Ala Phe Asp Phe Thr Ser Arg Val Ile Gly Phe Thr Val Leu Thr Glu
 145 150 155 160
 Ala Asp Pro Ala Ala Ser Arg Arg Ala Ser Gly Val Gly Ala Gln Gly
 165 170 175 176

<210> 788

<211> 180

<212> Amino acid

<213> Homo sapiens

<400> 788

Lys Gln Gly Leu Glu Val Arg Asp Leu His Phe Lys Glu Ile Thr Ser
 1 5 10 15
 Gly Arg Ala Leu Leu Arg Val Ala Cys Lys Arg Pro Ser Met Val Pro
 20 25 30
 Gly Gly Gln Leu Gln Arg Ala Gly Ala Gly Ala Gln Ala Arg Ile Thr
 35 40 45
 Gly Leu Ser Pro Ala Leu Trp Gly Ala Arg Val His Gly Trp Ile Pro
 50 55 60
 Glu Leu Pro Ala Gly Leu Pro Pro Gly Ala Cys Leu Trp Pro Leu Ile
 65 70 75 80
 Pro Ala Cys Pro Ser Arg His Trp Gly Trp Val Ser Ala Pro Val Lys
 85 90 95
 Gly Trp Ala Gln Ala Ile Leu Gly Leu Ala Leu Cys Leu Arg Gly Glu
 100 105 110
 His Arg Gly Leu Gly Ala Gly Val Ser Lys Val Arg Ser Leu Lys Met
 115 120 125
 Asp Arg Lys Val Trp Thr Glu Thr Leu Ile Glu Val Gly Met Pro Leu
 130 135 140
 Leu Ala Thr Asp Thr Trp Gly Leu Pro His Ser Thr Ala Val Trp Val
 145 150 155 160
 Ser Gln Pro Pro Pro Tyr Leu Ser Asp His Ser Thr Leu Glu Leu Glu
 165 170 175
 Arg Asp Pro Leu
 180

<210> 789
 <211> 145
 <212>Amino acid
 <213> Homo sapiens

<400> 789
 Leu Ser Cys Asn Ser Glu Gln Ala Leu Leu Ser Leu Val Pro Val Gln
 1 5 10 15
 Arg Glu Leu Leu Arg Arg Arg Tyr Gln Ser Ser Pro Ala Lys Pro Asp
 20 25 30
 Ser Ser Phe Tyr Lys Gly Leu Gly Thr Cys Pro Ser Gln Leu Arg Leu
 35 40 45
 Ser Glu Pro Pro Pro Thr Pro Arg His Leu Ser Val Ala Ser Val Ser
 50 55 60
 His His Met Phe Pro Ser His Arg Ser Leu Cys Pro His Leu Pro Asp
 65 70 75 80
 Phe Phe Ala Ala Pro Phe Pro Ser Asp Asn Leu Pro Tyr Thr Leu Gln
 85 90 95
 Ser Pro Phe Pro Ser Pro Pro Pro Ala Thr Pro Ser Asp His Ala Leu
 100 105 110
 Ile Leu His His Asp Leu Asn Gly Gly Pro Asp Asp Pro Leu Gln Gln
 115 120 125
 Thr Gly Gln Leu Phe Gly Gly Leu Val Arg Asp Ile Arg Arg Arg Tyr
 130 135 140
 Pro
 145

<210> 790
 <211> 65
 <212>Amino acid
 <213> Homo sapiens

<400> 790
 Ser Pro Ser Ser Lys Leu Val Gly Met Trp Trp Ala Gly Arg Ala Gly
 1 5 10 15
 Ser Ser Arg Thr Thr Ser Val Ser Leu Leu Cys Leu Pro Ser Ala Pro
 20 25 30
 Phe Gly Ala Ser Asn Leu Leu Val Asn Pro Leu Glu Pro Gln Asn Ala
 35 40 45
 Asp Lys Ile Lys Ile Lys Ile Ala Asp Leu Gly Asn Ala Cys Trp Val
 50 55 60
 Val
 65

<210> 791
 <211> 144
 <212>Amino acid
 <213> Homo sapiens

<400> 791

```

Arg Val Asp Pro Arg Val Arg Ala Pro Arg Cys Gly Asp Lys Ile Lys
 1           5           10           15
Asn His Met Tyr Lys Cys Asp Cys Gly Ser Leu Lys Asp Cys Ala Ser
          20           25           30
Asp Arg Cys Cys Glu Thr Ser Cys Thr Leu Ser Leu Gly Ser Val Cys
          35           40           45
Asn Thr Gly Leu Cys Cys His Lys Cys Lys Tyr Ala Ala Pro Gly Val
          50           55           60
Val Cys Arg Asp Leu Gly Gly Ile Cys Asp Leu Pro Glu Tyr Cys Asp
          65           70           75           80
Gly Lys Lys Glu Glu Cys Pro Asn Asp Ile Tyr Ile Gln Asp Gly Thr
          85           90           95
Pro Cys Ser Ala Val Ser Val Cys Ile Arg Gly Asn Cys Ser Asp Arg
          100          105          110
Asp Met Gln Cys Gln Ala Leu Phe Gly Tyr Gln Val Lys Asp Gly Ser
          115          120          125
Pro Ala Cys Tyr Arg Lys Leu Asn Arg Ile Gly Asn Arg Phe Gly Thr
          130          135          140          144

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<210> 792

<211> 242

<212>Amino acid

<213> Homo sapiens

<400> 792

```

Pro Gly Arg Pro Thr Arg Pro Asp Ala Ser Leu Ala Gln Asp Pro Arg
 1           5           10           15
Thr Thr Met Phe Arg Ile Pro Glu Phe Lys Trp Ser Pro Met His Gln
          20           25           30
Arg Leu Leu Thr Asp Leu Leu Phe Ala Leu Glu Thr Asp Val His Val
          35           40           45
Trp Arg Ser His Ser Thr Lys Ser Val Met Asp Phe Val Asn Ser Asn
          50           55           60
Glu Asn Ile Ile Phe Val His Asn Thr Ile His Leu Ile Ser Gln Met
          65           70           75           80
Val Asp Asn Ile Ile Ile Ala Cys Gly Gly Ile Leu Pro Leu Leu Ser
          85           90           95
Ala Ala Thr Ser Pro Thr Gly Ser Lys Thr Glu Leu Glu Asn Ile Glu
          100          105          110
Val Thr Gln Gly Met Ser Ala Glu Thr Ala Val Thr Phe Leu Ser Arg
          115          120          125
Leu Met Ala Met Val Asp Val Leu Val Phe Ala Ser Ser Leu Asn Phe
          130          135          140
Ser Glu Ile Glu Ala Glu Lys Asn Met Ser Ser Gly Gly Leu Met Arg
          145          150          155          160
Gln Cys Leu Lys Leu Val Cys Cys Val Ala Val Arg Asn Cys Leu Glu
          165          170          175
Cys Arg Gln Arg Gln Arg Asp Arg Gly Asn Lys Ser Ser His Gly Ser
          180          185          190
Ser Lys Pro Gln Glu Val Pro Gln Ser Val Thr Ala Thr Ala Ala Ser
          195          200          205
Lys Thr Pro Leu Glu Asn Val Pro Gly Asn Leu Ser Pro Ile Lys Asp
          210          215          220
Pro Asp Arg Leu Leu Gln Asp Val Asp Ile Asn Arg Leu Arg Ala Val
          225          230          235          240
Val Phe

```

242

<210> 793
 <211> 412
 <212> Amino acid
 <213> Homo sapiens

<400> 793
 Asn Ser Ser Gly Val Lys Leu Leu Gln Ala Leu Gly Leu Ser Pro Gly
 1 5 10 15
 Asn Gly Lys Asp His Ser Ile Leu His Ser Arg Asn Asp Leu Glu Glu
 20 25 30
 Ala Phe Ile His Phe Met Gly Lys Gly Ala Ala Ala Glu Arg Phe Phe
 35 40 45
 Ser Asp Lys Glu Thr Phe His Asp Ile Ala Gln Val Ala Ser Glu Phe
 50 55 60
 Pro Gly Ala Gln His Tyr Val Gly Gly Asn Ala Ala Leu Ile Gly Gln
 65 70 75 80
 Lys Phe Ala Ala Asn Ser Asp Leu Lys Val Leu Leu Cys Gly Pro Val
 85 90 95
 Gly Pro Lys Leu His Glu Leu Leu Asp Asp Asn Val Phe Val Pro Pro
 100 105 110
 Glu Ser Leu Gln Glu Val Asp Glu Phe His Leu Ile Leu Glu Tyr Gln
 115 120 125
 Ala Gly Glu Glu Trp Gly Gln Leu Lys Ala Pro His Ala Asn Arg Phe
 130 135 140
 Ile Phe Ser His Asp Leu Ser Asn Gly Ala Met Asn Met Leu Glu Val
 145 150 155 160
 Phe Val Ser Ser Leu Glu Glu Phe Gln Pro Asp Leu Gly Gly Leu Ser
 165 170 175
 Gly Leu His Met Met Glu Gly Gln Ser Lys Glu Leu Gln Arg Lys Arg
 180 185 190
 Leu Leu Glu Val Val Thr Ser Ile Ser Asp Ile Pro Thr Gly Ile Pro
 195 200 205
 Val His Leu Glu Leu Gly Ser Met Thr Asn Arg Glu Leu Met Ser Ser
 210 215 220
 Ile Val Leu Gln Gln Val Phe Pro Ala Val Thr Ser Leu Gly Leu Asn
 225 230 235 240
 Glu Gln Glu Leu Leu Phe Leu Thr Gln Ser Ala Ser Gly Pro His Ser
 245 250 255
 Ser Leu Ser Ser Trp Asn Gly Val Pro Asp Val Gly Met Val Ser Asp
 260 265 270
 Ile Leu Phe Trp Ile Leu Lys Glu His Gly Arg Ser Lys Ser Arg Ala
 275 280 285
 Ser Asp Leu Thr Arg Ile His Phe His Thr Leu Val Tyr His Ile Leu
 290 295 300
 Ala Thr Val Asp Gly His Trp Ala Asn Gln Leu Ala Ala Val Ala Ala
 305 310 315 320
 Gly Ala Arg Val Ala Gly Thr Gln Ala Cys Ala Thr Glu Thr Ile Asp
 325 330 335
 Thr Ser Arg Val Ser Leu Arg Ala Pro Gln Glu Phe Met Thr Ser His
 340 345 350
 Ser Glu Ala Gly Ser Arg Ile Val Leu Asn Pro Asn Lys Pro Val Val
 355 360 365
 Glu Trp His Arg Glu Gly Ile Ser Phe His Phe Thr Pro Val Leu Val
 370 375 380
 Cys Lys Asp Pro Ile Arg Thr Val Gly Leu Gly Asp Ala Ile Ser Ala
 385 390 395 400
 Glu Gly Leu Phe Tyr Ser Glu Val His Pro His Tyr

405

410

412

<210> 794
 <211> 83
 <212>Amino acid
 <213> Homo sapiens

<400> 794
 Asp Asp Ser Ser Gly Trp Gly Leu Glu Gln Leu Val Val Arg Trp Ser
 1 5 10 15
 Leu Ala Leu Trp Pro Arg Leu Glu Cys Ser Gly Met Ile Ser Ala His
 20 25 30
 Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala Pro
 35 40 45
 Arg Val Ala Gly Ile Thr Asp Val Cys His His Ala Trp Leu Val Phe
 50 55 60
 Val Phe Leu Val Val Met Gly Phe Pro His Val Gly His Val Gly Leu
 65 70 75 80
 Glu Leu Leu
 83

<210> 795
 <211> 391
 <212>Amino acid
 <213> Homo sapiens

<400> 795
 Leu Gly Glu Val Leu Lys Cys Gln Gln Gly Val Ser Ser Leu Ala Phe
 1 5 10 15
 Ala Leu Ala Phe Leu Gln Arg Met Asp Met Lys Pro Leu Val Leu
 20 25 30
 Gly Leu Pro Ala Pro Thr Ala Pro Ser Gly Cys Leu Ser Phe Trp Glu
 35 40 45
 Ala Lys Ala Gln Leu Ala Lys Ser Cys Lys Val Leu Val Asp Ala Leu
 50 55 60
 Arg His Asn Ala Ala Ala Val Pro Phe Phe Gly Gly Gly Ser Val
 65 70 75 80
 Leu Arg Ala Ala Glu Pro Ala Pro His Ala Ser Tyr Gly Gly Ile Val
 85 90 95
 Ser Val Glu Thr Asp Leu Leu Gln Trp Cys Leu Glu Ser Gly Ser Ile
 100 105 110
 Pro Ile Leu Cys Pro Ile Gly Glu Thr Ala Ala Arg Arg Ser Val Leu
 115 120 125
 Leu Asp Ser Leu Glu Val Thr Ala Ser Leu Ala Lys Ala Leu Arg Pro
 130 135 140
 Thr Lys Ile Ile Phe Leu Asn Asn Thr Gly Gly Leu Arg Asp Ser Ser
 145 150 155 160
 His Lys Val Leu Ser Asn Val Asn Leu Pro Ala Asp Leu Asp Leu Val
 165 170 175
 Cys Asn Ala Glu Trp Val Ser Thr Lys Glu Arg Gln Gln Met Arg Leu
 180 185 190
 Ile Val Asp Val Leu Ser Arg Leu Pro His His Ser Ser Ala Val Ile
 195 200 205
 Thr Ala Ala Ser Thr Leu Leu Thr Glu Leu Phe Ser Asn Lys Gly Ser

```

      210      215      220
Gly Thr Leu Phe Lys Asn Ala Glu Arg Met Leu Arg Val Arg Ser Leu
225      230      235      240
Asp Lys Leu Asp Gln Gly Arg Leu Val Asp Leu Val Asn Ala Ser Phe
      245      250      255
Gly Lys Lys Leu Arg Asp Asp Tyr Leu Ala Ser Leu Arg Pro Arg Leu
      260      265      270
His Ser Ile Tyr Val Ser Glu Gly Tyr Asn Ala Ala Ala Ile Leu Thr
      275      280      285
Met Glu Pro Val Leu Gly Gly Thr Pro Tyr Leu Asp Lys Phe Val Val
      290      295      300
Ser Ser Ser Arg Gln Gly Gln Gly Ser Gly Gln Met Leu Trp Glu Cys
305      310      315      320
Leu Arg Arg Asp Leu Gln Thr Leu Phe Trp Arg Ser Arg Val Thr Asn
      325      330      335
Pro Ile Asn Pro Trp Tyr Phe Lys His Ser Asp Gly Ser Phe Ser Asn
      340      345      350
Lys Gln Trp Ile Phe Phe Trp Phe Gly Leu Ala Asp Ile Arg Asp Ser
      355      360      365
Tyr Glu Leu Val Asn His Ala Lys Gly Leu Pro Asp Ser Phe His Lys
      370      375      380
Pro Ala Ser Asp Pro Gly Ser
385      390 391

```

```

<210> 796
<211> 127
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(127)
<223> X = any amino acid or stop code

```

```

      <400> 796
Tyr His Ala Pro Ala Leu Gln Pro Gly Gln Gln Ser Lys Thr Leu Ser
 1      5      10      15
Gln Glu Lys Lys Asn Phe Phe Arg Pro Gly Ala Val Ala His Thr Cys
      20      25      30
Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Thr Arg Ser Gly
      35      40      45
Asp Arg Asp His Pro Gly Xaa His Gly Glu Thr Pro Ser Leu Leu Lys
      50      55      60
Ile Gln Lys Lys Leu Ala Gly Arg Asp Gly Gly Arg Leu Xaa Ser Gln
      65      70      75      80
Leu Leu Gly Arg Leu Arg Gln Glu Asn Gly Val Asn Pro Gly Gly Gly
      85      90      95
Gly Cys Ser Glu Pro Arg Leu Arg His Cys Thr Pro Ala Trp Xaa Gln
      100      105      110
Ser Glu Thr Ile Ser Arg Lys Lys Arg Lys Lys Glu Arg Lys Tyr
      115      120      125      127

```

```

<210> 797
<211> 159
<212>Amino acid
<213> Homo sapiens

```

<400> 797

```

Phe Arg Pro Ile Gly Ile Ile Arg Gln Ala Leu Cys Ser Ala Asp Gly
 1           5           10           15
His Gln Arg Arg Ile Leu Thr Leu Arg Leu Gly Leu Leu Val Ile Pro
           20           25           30
Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Pro
           35           40           45
Ser Val Gly Cys Cys Val Met Leu Leu Phe Gly Phe Gly Ala Leu Arg
           50           55           60
Lys His Thr Glu Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly Ile
           65           70           75           80
Leu Leu Ser Asn Asp Ala Glu Arg Leu Arg Cys Ala Val Arg Gly Gly
           85           90           95
Glu Trp Arg Ser Glu Glu Ala Val Phe Arg Gly Ala Val Ser Val Cys
           100          105          110
Pro Leu Ser Ala Glu Val Arg Cys Asn Ile Gly Arg Asn Leu Ala Ala
           115          120          125
Lys Gly Asn Gln Thr Gly Ala Ile Arg Tyr His Arg Glu Ala Val Ser
           130          135          140
Leu Asn Pro Lys Thr Lys Ser Ser Thr Arg Glu Phe Arg Pro Cys
145           150           155           159

```

<210> 798

<211> 236

<212> Amino acid

<213> Homo sapiens

<400> 798

```

Lys Ile Ala Asp Phe Gly Phe Ser Asn Leu Phe Thr Pro Gly Gln Leu
 1           5           10           15
Leu Lys Thr Trp Cys Gly Ser Pro Pro Tyr Ala Ala Pro Glu Leu Phe
           20           25           30
Glu Gly Lys Glu Tyr Asp Gly Pro Lys Val Asp Ile Trp Ser Leu Gly
           35           40           45
Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp Gly Ser
           50           55           60
Thr Leu Gln Asn Leu Arg Ala Arg Val Leu Ser Gly Lys Phe Arg Ile
           65           70           75           80
Pro Phe Phe Met Ser Thr Glu Cys Glu His Leu Ile Arg His Met Leu
           85           90           95
Val Leu Asp Pro Asn Lys Arg Leu Ser Met Glu Gln Ile Cys Lys His
           100          105          110
Lys Trp Met Lys Leu Gly Asp Ala Asp Pro Asn Phe Asp Arg Leu Ile
           115          120          125
Ala Glu Cys Gln Gln Leu Lys Glu Glu Arg Gln Val Asp Pro Leu Asn
           130          135          140
Glu Asp Val Leu Leu Ala Met Glu Asp Met Gly Leu Asp Lys Glu Gln
145           150           155           160
Thr Leu Gln Ser Leu Arg Ser Asp Ala Tyr Asp His Tyr Ser Ala Ile
           165          170          175
Tyr Ser Leu Leu Cys Asp Arg His Lys Arg His Lys Thr Leu Arg Leu
           180          185          190
Gly Ala Leu Pro Ser Met Pro Arg Ala Leu Gly Leu Ser Ser Thr Ser
           195          200          205
Gln Tyr Pro Ala Glu Gln Ala Gly Thr Ala Met Asn Ile Ser Val Pro
210           215           220

```

Gln Val Gln Leu Ile Asn Pro Glu Asn Gln Ile Val
 225 230 235 236

<210> 799
 <211> 114
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(114)
 <223> X = any amino acid or stop code

<400> 799
 Ala Arg Glu Phe Leu Gly His Arg Ala Ser Ile Thr Trp Ser Xaa Ala
 1 5 10 15
 Arg Val His His Arg Phe Pro Lys Ala Glu Val Ala Xaa Pro Ser Leu
 20 25 30
 Leu Arg Thr Asp Leu Thr Glu Asp Arg Thr Lys Cys Cys His Gly Asp
 35 40 45
 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Val Glu Asp Ile Trp
 50 55 60
 Glu Asn Gln Asp Ser Ile Ser Thr Ile Leu Ile Glu Cys Cys Glu Lys
 65 70 75 80
 Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu
 85 90 95
 Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys
 100 105 110
 Asp Val
 114

<210> 800
 <211> 328
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(328)
 <223> X = any amino acid or stop code

<400> 800
 Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg Gly
 1 5 10 15
 Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser Gly
 20 25 30
 Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser Ser
 35 40 45
 Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys Ala
 50 55 60
 Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr Ala
 65 70 75 80
 Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser Ser
 85 90 95

```

Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val Asp
      100      105      110
Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu Gln
      115      120      125
Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr Ala
      130      135      140
Arg Arg Asn Arg Arg Pro Gly Ser Xaa Lys Asp Cys Thr Pro Xaa Lys
      145      150      155      160
Cys Leu Arg Lys Ser Asp Glu Ala Leu Asn Arg Val Leu Gln Gln Ile
      165      170      175
Arg Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg
      180      185      190
Gly Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser
      195      200      205
Gly Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser
      210      215      220
Ser Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys
      225      230      235      240
Ala Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr
      245      250      255
Ala Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser
      260      265      270
Ser Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val
      275      280      285
Asp Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu
      290      295      300
Gln Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr
      305      310      315      320
Ala Arg Arg Asn Arg Arg Pro Gly
      325      328

```

<210> 801
 <211> 356
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 801
Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met Ser
  1      5      10      15
Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg Glu
      20      25      30
Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu Glu
      35      40      45
Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu Arg
      50      55      60
Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala Ser
      65      70      75      80
Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu Ile
      85      90      95
Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser Gln
      100      105      110
Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu Lys
      115      120      125
Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala Ser
      130      135      140
Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln Leu
      145      150      155      160
Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg Glu
      165      170      175

```

Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu Ile
 180 185 190
 Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu Gln
 195 200 205
 Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu Thr
 210 215 220
 Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln Glu
 225 230 235 240
 Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln Ala
 245 250 255
 Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln Gln
 260 265 270
 Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu Leu
 275 280 285
 Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys Thr
 290 295 300
 Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu Ile
 305 310 315 320
 Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys
 325 330 335
 Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly
 340 345 350
 Arg Ser Thr *
 355

<210> 802
 <211> 210
 <212> Amino acid
 <213> Homo sapiens

<400> 802
 Ser Tyr Pro Val Trp Trp Asn Ser Pro Leu Thr Ala Glu Val Pro Pro
 1 5 10 15
 Glu Leu Leu Ala Ala Gly Phe Phe His Thr Gly His Gln Asp Lys
 20 25 30
 Val Arg Cys Phe Phe Cys Tyr Gly Glu Leu Gln Ser Trp Lys Arg Gly
 35 40 45
 Asp Asp Pro Trp Thr Glu His Ala Lys Trp Phe Pro Ser Cys Gln Phe
 50 55 60
 Leu Leu Arg Ser Lys Gly Arg Asp Phe Val His Ser Val Gln Glu Thr
 65 70 75 80
 His Ser Gln Leu Leu Gly Ser Trp Asp Pro Trp Glu Glu Pro Glu Asp
 85 90 95
 Ala Ala Pro Val Ala Pro Ser Val Pro Ala Ser Gly Tyr Pro Glu Leu
 100 105 110
 Pro Thr Pro Arg Arg Glu Val Gln Ser Glu Ser Ala Gln Glu Pro Gly
 115 120 125
 Gly Val Ser Pro Ala Glu Ala Gln Arg Ala Trp Trp Val Leu Glu Pro
 130 135 140
 Pro Gly Ala Arg Asp Val Glu Ala Gln Leu Arg Arg Leu Gln Glu Glu
 145 150 155 160
 Arg Thr Cys Lys Val Cys Leu Asp Arg Ala Val Ser Ile Val Phe Val
 165 170 175
 Pro Cys Gly His Leu Val Cys Ala Glu Cys Ala Pro Gly Leu Gln Leu
 180 185 190
 Cys Pro Ile Cys Arg Ser Pro Cys Gly Pro Leu Arg Pro Cys Leu Trp
 195 200 205
 Val Pro
 210

<210> 803
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 803
 Met Cys Ser Tyr Arg Glu Lys Lys Ala Glu Pro Gln Glu Leu Leu Gln
 1 5 10 15
 Leu Asp Gly Tyr Thr Val Asp Tyr Thr Asp Pro Gln Pro Gly Leu Glu
 20 25 30
 Gly Gly Arg Ala Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile
 35 40 45
 Phe Ala Ser Asp Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met
 50 55 60
 Tyr Arg Ala Thr Gly Gln Ser His Lys Pro Val Pro Pro Thr Gln Val
 65 70 75 80
 Gln Lys Leu Asn Ala Lys Gly Gly Asn Val Pro Gln Leu Asp Ala Pro
 85 90 95
 Ile Ser Gln Phe Tyr Ala Asp Arg Ala Gln Lys His Gly Met Asp Glu
 100 105 110
 Phe Ile Ser Ser Asn Pro Cys Asn Phe Asp His Ala Ser Leu Phe Glu
 115 120 125
 Met *
 129

<210> 804
 <211> 458
 <212>Amino acid
 <213> Homo sapiens

<400> 804
 Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
 1 5 10 15
 Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
 20 25 30
 Ala Arg Ala Gly Leu Leu Leu Ala Pro Gly His Gln Gly Pro Gln Arg
 35 40 45
 Pro Val Lys Asp Glu Pro Gln Asp Gly Glu Asn Pro Asn Pro Pro Asn
 50 55 60
 Trp Ser Arg Thr Val Val Arg Asp Val Arg Leu Ile Ser Ala Lys Thr
 65 70 75 80
 Gly Tyr Gly Val Glu Glu Leu Ile Ser Ala Leu Gln Arg Ser Trp Arg
 85 90 95
 Tyr Arg Gly Asp Val Tyr Leu Val Gly Ala Thr Asn Ala Gly Lys Ser
 100 105 110
 Thr Leu Phe Asn Thr Leu Leu Glu Ser Asp Tyr Cys Thr Ala Lys Gly
 115 120 125
 Ser Glu Ala Ile Asp Arg Ala Thr Ile Ser Pro Trp Pro Gly Thr Thr
 130 135 140
 Leu Asn Leu Leu Lys Phe Pro Ile Cys Asn Pro Thr Pro Tyr Arg Met
 145 150 155 160
 Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu Glu
 165 170 175

```

Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys His
      180      185      190
Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu Glu
      195      200      205
Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala Phe
      210      215      220
Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys Gln
      225      230      235      240
Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr Asp
      245      250      255
Thr Pro Gly Ile Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr Glu
      260      265      270
Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg Thr
      275      280      285
Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly Arg
      290      295      300
Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val Ala
      305      310      315      320
Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp Ala
      325      330      335
Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met Gly
      340      345      350
Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp Ile
      355      360      365
Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile Lys
      370      375      380
Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp Arg
      385      390      395      400
Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val Arg
      405      410      415
Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile Lys
      420      425      430
Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr Asn
      435      440      445
Val Arg Lys Lys Lys Gly Lys Ile Asn Val
      450      455      458

```

<210> 805

<211> 290

<212>Amino acid

<213> Homo sapiens

<400> 805

```

Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Glu Cys Leu
  1      5      10      15
Arg Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr
      20      25      30
Met Leu Val Ser Arg Asn Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys
      35      40      45
Lys Ser Asp Gly Gly Val Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu
      50      55      60
Val Ser Pro Ala Gln Glu Pro Ala Pro Leu Gln Thr Ala Met Glu Pro
      65      70      75      80
Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr
      85      90      95
Glu Ser Cys Asn Thr Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro
      100      105      110
Leu Arg Thr Gly Asn Gly Ser Ser Val Pro Glu Gly Arg Ser Ser Arg
      115      120      125

```


Asp Arg Thr Ala Pro Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys
 130 135 140
 Ser Ser Ala Met Arg Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu
 145 150 155 160
 Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys
 165 170 175
 Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val
 180 185 190
 Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn Leu Leu Ser Lys
 195 200 205
 Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro His Val His Val
 210 215 220
 Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr
 225 230 235 240
 Ile Asp Gly Gln Gly Arg Pro Ser Asn Pro Ala Lys Ser Glu Glu Thr
 245 250 255
 Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val His Tyr His
 260 265 270
 Cys Ser Gly Ala Pro Cys Pro His Arg Cys Ser Glu Leu Ser His Arg
 275 280 285
 Gly Phe
 290

<210> 806
 <211> 570
 <212> Amino acid
 <213> Homo sapiens

<400> 806
 Leu Pro Lys Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val
 1 5 10 15
 Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His
 20 25 30
 Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg
 35 40 45
 Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile
 50 55 60
 Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr
 65 70 75 80
 Asp Ile Asn Gly Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr
 85 90 95
 Val Ala His Ser Gly Ile Gly Asp Arg Arg Val Ser Leu Ile Val Phe
 100 105 110
 Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile
 115 120 125
 Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr
 130 135 140
 Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser
 145 150 155 160
 Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala
 165 170 175
 Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu
 180 185 190
 Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr
 195 200 205
 Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala
 210 215 220
 Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr
 225 230 235 240

Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val
 245 250 255
 Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly
 260 265 270
 Gly Asp Gly Glu Gly Asp Thr Asn His Ile Glu Arg Leu Trp Ser Tyr
 275 280 285
 Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu
 290 295 300
 Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser
 305 310 315 320
 Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val
 325 330 335
 Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala Ala Met
 340 345 350
 Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro
 355 360 365
 Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys
 370 375 380
 Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser
 385 390 395 400
 Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu
 405 410 415
 Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu
 420 425 430
 Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr
 435 440 445
 Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr
 450 455 460
 Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu
 465 470 475 480
 Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu
 485 490 495
 Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser
 500 505 510
 Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe
 515 520 525
 Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser
 530 535 540
 Ser Asn Cys Arg Val Phe Cys Glu Ser Gly Ile Leu Ile Gln Glu Leu
 545 550 555 560
 Thr Gln Gln Ser Val Ala Val Ala Gly Arg
 565 570

<210> 807
 <211> 279
 <212> Amino acid
 <213> Homo sapiens

<400> 807
 Phe Phe Leu Glu Gln Val Ser Gln Tyr Thr Phe Ala Met Cys Ser Tyr
 1 5 10 15
 Arg Glu Lys Lys Ser Glu Pro Gln Glu Leu Met Gln Leu Glu Gly Tyr
 20 25 30
 Thr Val Asp Tyr Thr Asp Pro His Pro Gly Leu Gln Gly Gly Cys Met
 35 40 45
 Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile Phe Ala Ser Asp
 50 55 60
 Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met Tyr Arg Ala Thr
 65 70 75 80

```

Gly Gln Ser Tyr Lys Pro Val Pro Ala Ile Gln Thr Gln Lys Leu Asn
      85                      90                      95
Pro Lys Gly Gly Thr Leu His Ala Asp Ala Gln Leu Tyr Ala Asp Arg
      100                      105                      110
Phe Gln Lys His Gly Met Asp Glu Phe Ile Ser Ala Asn Pro Cys Lys
      115                      120                      125
Leu Asp His Ala Phe Leu Phe Arg Ile Leu Gln Arg Gln Thr Leu Asp
      130                      135                      140
His Arg Leu Asn Asp Ser Tyr Ser Cys Leu Gly Trp Phe Ser Pro Gly
      145                      150                      155                      160
Gln Val Phe Val Leu Asp Glu Tyr Cys Ala Arg Tyr Gly Val Arg Gly
      165                      170                      175
Cys His Arg His Leu Cys Tyr Leu Ala Glu Leu Met Glu His Ser Glu
      180                      185                      190
Asn Gly Ala Val Ile Asp Pro Thr Leu Leu His Tyr Ser Phe Ala Phe
      195                      200                      205
Cys Ala Ser His Val His Gly Asn Arg Pro Asp Gly Ile Gly Thr Val
      210                      215                      220
Ser Val Glu Glu Lys Glu Arg Phe Glu Glu Ile Lys Glu Arg Leu Ser
      225                      230                      235                      240
Ser Leu Leu Glu Asn Gln Ile Ser His Phe Arg Tyr Cys Phe Pro Phe
      245                      250                      255
Gly Arg Pro Glu Gly Ala Leu Lys Ala Thr Leu Ser Leu Leu Glu Arg
      260                      265                      270
Val Leu Met Lys Asp Ile Ala
      275                      279

```

```

<210> 808
<211> 251
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(251)
<223> X = any amino acid or stop code

```

```

<400> 808
Asp Gly Leu Leu His Glu Val Leu Asn Gly Leu Leu Asp Arg Pro Asp
  1                      5                      10                      15
Trp Glu Glu Ala Val Lys Met Pro Val Gly Ile Leu Pro Cys Gly Ser
      20                      25                      30
Gly Asn Ala Leu Ala Gly Ala Val Asn Gln His Gly Gly Phe Glu Pro
      35                      40                      45
Ala Leu Gly Leu Asp Leu Leu Leu Asn Cys Ser Leu Leu Leu Cys Arg
      50                      55                      60
Gly Gly Gly His Pro Leu Asp Leu Leu Ser Val Thr Leu Ala Ser Gly
      65                      70                      75                      80
Ser Arg Cys Phe Ser Phe Leu Ser Val Ala Trp Gly Phe Val Ser Asp
      85                      90                      95
Val Asp Ile Gln Ser Glu Arg Phe Arg Ala Leu Gly Ser Ala Arg Phe
      100                      105                      110
Thr Leu Gly Thr Val Leu Gly Leu Ala Thr Leu His Thr Tyr Arg Gly
      115                      120                      125
Arg Leu Ser Tyr Leu Pro Ala Thr Val Glu Pro Ala Ser Pro Thr Pro
      130                      135                      140
Ala His Ser Leu Pro Arg Ala Lys Ser Glu Leu Thr Leu Thr Pro Asp
      145                      150                      155                      160
Pro Ala Pro Pro Met Ala His Ser Pro Leu His Arg Ser Val Ser Asp

```

```

                165                170                175
Leu Pro Leu Pro Leu Pro Gln Pro Ala Leu Ala Ser Pro Gly Ser Pro
                180                185                190
Glu Pro Leu Pro Ile Leu Ser Leu Asn Gly Gly Gly Pro Glu Leu Ala
                195                200                205
Gly Asp Trp Gly Gly Ala Gly Asp Ala Pro Leu Ser Pro Asp Pro Gln
                210                215                220
Leu Ser Ser Pro Pro Gly Ser Pro Lys Ala Ala Leu His Ser Pro Val
225                230                235                240
Xaa Lys Lys Ala Pro Val Ile Pro Pro Asp Met
                245                250 251

```

<210> 809
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

```

<400> 809
Lys Gly Val Pro Thr Leu Leu Met Ala Ala Gly Ser Phe Tyr Asp Ile
 1          5          10          15
Leu Ala Ile Thr Gly Phe Asn Thr Cys Leu Gly Ile Ala Phe Ser Thr
          20          25          30
Gly Ser Thr Val Phe Asn Val Leu Arg Gly Val Leu Glu Val Val Ile
          35          40          45
Gly Val Ala Thr Gly Ser Val Leu Gly Phe Phe Ile Gln Tyr Phe Pro
          50          55          60
Ser Arg Asp Gln Asp Lys Leu Val Cys Lys Arg Thr Phe Leu Val Leu
          65          70          75          80
Gly Leu Ser Val Leu Ala Val Phe Ser Ser Val His Phe Gly Phe Pro
          85          90          95
Gly Ser Gly Gly Leu Cys Thr Leu Val Met Ala Phe Leu Ala Gly Met
          100         105         110
Gly Trp Thr Ser Glu Lys Ala Glu Val Glu Lys Ile Ile Ala Val Ala
          115         120         125
Trp Asp Ile Phe Gln Pro Leu Phe Gly Leu Ile Gly Ala Glu Val
          130         135         140
Ser Ile Ser Ser Leu Arg Pro Glu Thr Val Gly Leu Cys Val Ala Thr
145         150         155         160
Val Gly Ile Ala Val Leu Ile Arg Ile Phe Asp Tyr Ile Phe
          165          170          174

```

<210> 810
 <211> 104
 <212>Amino acid
 <213> Homo sapiens

```

<400> 810
Leu Leu Lys Glu Val Val Val Gln Ala Ser Pro Val Cys Lys Thr Cys
 1          5          10          15
Cys Ser Gln Leu Val Arg Thr Pro Val Thr Phe Thr Glu Val Gln Asn
          20          25          30
Val Cys Arg Cys Ser Ala Gly Tyr Leu Ile Ser Val Cys Ser Tyr Thr
          35          40          45
Ser Ser Asp His Asn Gln Cys Tyr Ala Gly Thr Ala Ser Leu Ala Leu

```

```

      50              55              60
Leu Trp Ile Gly Gly Ile Leu Lys Gly Cys Leu Leu Trp Lys Gln Phe
 65              70              75              80
Arg Trp Thr Glu Arg Ser His Trp Asn Phe Gly Tyr Trp Ala Leu Trp
      85              90              95
Ser Pro Gly Asn Gly Asn Gly Cys
      100              104

```

<210> 811
 <211> 77
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 811
Ile Cys Thr Ser Thr Tyr Leu Gln Ile Phe Pro Gly Lys Pro Ser Cys
 1              5              10              15
Phe Met Cys Lys Gly Arg Leu Met Cys Ile Tyr Phe Ile Leu Trp Tyr
      20              25              30
Leu Gly His Tyr Thr Ser Leu His Trp Asn Trp Cys Arg Tyr Ile Ser
      35              40              45
Asp Pro Asn Val Asp Ala Cys Pro Asp Pro Arg Asn Ala Glu Val Ser
      50              55              60
Met Thr His Thr Val Pro Ala Leu Met Glu Leu Ile Asp
      65              70              75              77

```

<210> 812
 <211> 194
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 812
Leu Glu Ser Leu Pro Gly Phe Lys Glu Ile Val Ser Arg Gly Val Lys
 1              5              10              15
Val Asp Tyr Leu Thr Pro Asp Phe Pro Ser Leu Ser Tyr Pro Asn Tyr
      20              25              30
Tyr Thr Leu Met Thr Gly Arg His Cys Glu Val His Gln Met Ile Gly
      35              40              45
Asn Tyr Met Trp Asp Pro Thr Asn Lys Ser Phe Asp Ile Gly Val
      50              55              60
Asn Lys Asp Ser Leu Met Pro Leu Trp Trp Asn Gly Ser Glu Pro Leu
      65              70              75              80
Trp Val Thr Leu Thr Lys Ala Lys Arg Lys Val Tyr Met Tyr Tyr Trp
      85              90              95
Pro Gly Cys Glu Val Glu Ile Leu Gly Val Arg Pro Thr Tyr Cys Leu
      100              105              110
Glu Tyr Lys Asn Val Pro Thr Asp Ile Asn Phe Ala Asn Ala Val Ser
      115              120              125
Asp Ala Leu Asp Ser Phe Lys Ser Gly Arg Ala Asp Leu Ala Ala Ile
      130              135              140
Tyr His Glu Arg Ile Asp Val Glu Gly His His Tyr Gly Pro Ala Ser
      145              150              155              160
Pro Gln Arg Lys Asp Ala Leu Lys Ala Val Asp Thr Val Leu Lys Tyr
      165              170              175
Met Thr Lys Trp Ile Gln Glu Arg Gly Leu Gln Asp Arg Leu Asn Val

```

Ile Ile 180 185 190
194

<210> 813
<211> 116
<212> Amino acid
<213> Homo sapiens

<220> .
<221> misc_feature
<222> (1)...(116)
<223> X = any amino acid or stop code

<400> 813
Ala Arg Asp Phe His Pro Lys Gln Thr Leu Asp Phe Leu Arg Ser Asp
1 5 10 15
Met Ala Asn Ser Lys Ile Thr Glu Glu Val Lys Arg Ser Ile Ala Gln
20 25 30
Gln Tyr Leu Asp Leu Thr Val Ala Leu Glu Gln Val Asp Pro Asp Ala
35 40 45
Glu Val Asp Ala Ala Pro Ser Thr Thr Ser Ser Cys Gly His Xaa Asp
50 55 60
Ser His Ala Gly Ser Xaa Arg Val Leu Ser Leu Leu Gly Asp Xaa Gly
65 70 75 80
Pro Ala Xaa Thr Gly Ala Asn Ser Met Ala Gly Lys Leu Leu Leu Val
85 90 95
Ala Trp Leu Gly Phe Pro Asp Pro Phe Trp Gly Lys Glu Leu Ser Asp
100 105 110
Pro Ala Phe Lys
115 116

<210> 814
<211> 121
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(121)
<223> X = any amino acid or stop code

<400> 814
Lys Gln Ser Gly Asp Val Thr Cys Asn Cys Thr Asp Gly Arg Leu Ala
1 5 10 15
Pro Ser Cys Leu Thr Cys Val Gly His Cys Ile Phe Gly Gly Tyr Cys
20 25 30
Thr Met Asn Ser Lys Met Met Pro Glu Cys Gln Ser Pro Pro His Met
35 40 45
Thr Gly Pro Arg Cys Glu Glu His Val Phe Ser Gln His Gln Pro Gly
50 55 60
His Ile Thr Ser Ile Leu Ile Pro Met Leu Xaa Leu Leu Leu Leu Val
65 70 75 80
Leu Val Ala Gly Val Ile Phe Cys His Lys Arg Val Gln Gly Ala

```

      85      90      95
Lys Gly Phe Gln His Gln Arg Met Thr Asn Gly Ala Met Asn Ala Gln
      100      105      110
Ile Ala Asn Pro Thr Tyr Lys Met Tyr
      115      120 121

```

```

<210> 815
<211> 86
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(86)
<223> X = any amino acid or stop code

```

```

<400> 815
Thr Val Glu Asn Ala Gly Arg Trp Leu Xaa Glu Glu Ala Glu Ile Gln
 1      5      10      15
Ala Glu Leu Glu Arg Leu Glu Arg Val Arg Asn Leu His Ile Arg Glu
      20      25      30
Leu Lys Arg Ile Asn Asn Glu Asp Asn Ser Gln Phe Lys Asp His Pro
      35      40      45
Thr Leu Asn Glu Arg Tyr Leu Leu Leu His Leu Leu Gly Arg Gly Gly
      50      55      60
Phe Ser Glu Val Tyr Lys Val Met Tyr Gly Leu Phe Trp Phe Phe Tyr
      65      70      75      80
Thr Asn Val Ala Arg Ile
      85 86

```

```

<210> 816
<211> 130
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(130)
<223> X = any amino acid or stop code

```

```

<400> 816
Met Cys Glu Glu Phe Leu Val Met Gly Lys Gly Cys Ser Cys Val Phe
 1      5      10      15
Xaa Ile Leu Leu Ser Asn Pro Gln Met Trp Trp Leu Asn Asp Ser Asn
      20      25      30
Pro Glu Thr Asp Asn Arg Gln Glu Ser Pro Ser Gln Glu Asn Ile Asp
      35      40      45
Arg Val Ser Asp Met Ala Phe Val Pro Ser Ala Trp Thr Ala Ser Gly
      50      55      60
Gly Val Ala Trp Gly Asn Leu Gly Glu Ser Gly Ser Arg Thr Gly Gly
      65      70      75      80
Val Arg Ala Glu Thr Leu Ala Pro Arg Leu Gln Val Xaa Pro Ala His
      85      90      95
Leu Arg Gly His Pro Arg Ser Asn Arg Gly Gln Gly Arg Pro Pro Trp

```

```

          100          105          110
Lys Ala Gly Lys Leu Gly Lys Cys Gln Glu Val Leu Phe Arg Phe Ala
          115          120          125
Ala Phe
130

```

```

<210> 817
<211> 119
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(119)
<223> X = any amino acid or stop code

```

```

<400> 817
Phe Arg Ala Met Phe Leu Ala Val Gln His Asp Cys Arg Pro Met Asp
 1          5          10          15
Lys Ser Ala Gly Ser Gly His Lys Ser Glu Glu Lys Arg Glu Lys Met
          20          25          30
Lys Arg Thr Leu Leu Lys Asp Trp Lys Thr Arg Leu Ser Tyr Phe Leu
          35          40          45
Gln Asn Ser Ser Thr Pro Gly Lys Pro Lys Thr Gly Lys Lys Ser Lys
          50          55          60
Gln Gln Ala Phe Ile Lys Xaa Val Glu Asn Pro Glu Leu Ala Asn Ile
          65          70          75          80
Asn Ser Xaa Leu Leu Asn Xaa Lys Gly Glu Leu Xaa Xaa Ala Xaa Ala
          85          90          95
Asn Ile Gln Asn Leu Ser Cys Arg Pro Ser Pro Glu Glu Ala Gln Leu
          100          105          110
Trp Ser Glu Ala Phe Asp Glu
          115          119

```

```

<210> 818
<211> 131
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> X = any amino acid or stop code

```

```

<400> 818
Gly Phe Phe Asn Phe Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn
 1          5          10          15
Ser Ser Leu Val Leu Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp
          20          25          30
Ala Glu Arg Asp Val Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp
          35          40          45
Ala Arg His Ser Ser Val His Arg Xaa Phe Thr Gln Leu His Trp Gly
          50          55          60
Pro Pro Ser His Thr Pro Ala Arg Pro Xaa Arg Gly Phe Phe Asn Phe

```



```

65          70          75          80
Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn Ser Ser Leu Val Leu
          85          90          95
Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp Ala Glu Arg Asp Val
          100          105          110
Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp Ala Arg His Ser Ser
          115          120          125
Val His Arg
          130 131

```

```

<210> 819
<211> 85
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(85)
<223> X = any amino acid or stop code

```

```

<400> 819
Arg Ile Asp Asp Gln Gln Glu Leu Lys Arg Val Thr Xaa Tyr Ser Gln
 1          5          10          15
Lys Glu Tyr Thr Lys Lys Lys Leu His Lys Lys Cys Asn Ile Ile Gln
          20          25          30
Ala Asp Ile Lys Pro Asp Asn Ile Leu Asp Asn Glu Ser Ile Thr Ile
          35          40          45
Leu Lys Leu Ser Asp Phe Gly Ser Ala Ser His Val Ala Asp Asn Asp
          50          55          60
Ile Thr Pro Ser Ser Ser Gln Thr Thr Ser Ala Ala Ser Ser Pro Pro
          65          70          75          80
Arg Thr Leu Arg Arg
          85

```

```

<210> 820
<211> 44
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(44)
<223> X = any amino acid or stop code

```

```

<400> 820
Ser Ser Lys Pro Trp Asp Xaa Ser Leu Ala Pro Lys His Ser Gly Xaa
 1          5          10          15
Thr Lys Asn Met Asp Cys Tyr Cys Ile Ile Pro Thr Cys Ile Gly Arg
          20          25          30
Glu Arg Cys Tyr Gly Thr Cys Ile Gly Asp Thr Val
          35          40          44

```

```

<210> 821

```

<211> 105
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(105)
 <223> X = any amino acid or stop code

<400> 821
 Asn Ser Ser Lys Lys Leu Val Met Glu His Gln Trp Lys Lys Tyr Leu
 1 5 10 15
 Arg Arg Asn Tyr Gln Arg Met Leu Asn Arg Leu Ile Thr Leu Ile Gly
 20 25 30
 Ser Cys Gly Val Leu Xaa Leu Ile Ser Thr Ile Pro Thr Ser Arg Leu
 35 40 45
 Lys Phe Leu Lys Glu Thr Gly His Gly Thr Pro Met Glu Glu Ile Pro
 50 55 60
 Glu Glu Glu Leu Ser Glu Asp Val Glu Gln Ile Asp His Ala Asp Arg
 65 70 75 80
 Glu Leu Arg Arg Gly Gln Asn Leu Arg Cys Lys Gly Ile His Arg Leu
 85 90 95
 Pro Thr His Ile Gln Val Gly Gln Asn
 100 105

<210> 822
 <211> 172
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(172)
 <223> X = any amino acid or stop code

<400> 822
 Lys Trp Met Leu Leu His Ser Phe Lys Ile Phe Cys Leu Ser Leu Tyr
 1 5 10 15
 Pro Gln Leu Xaa Cys Pro Phe Glu Phe Phe Ser His Ser Ala Thr Ile
 20 25 30
 Phe His Glu Leu Val Tyr Lys Gln Thr Lys Ile Ile Ser Ser Asn Gln
 35 40 45
 Glu Leu Ile Tyr Glu Gly Arg Arg Leu Val Leu Glu Pro Gly Arg Leu
 50 55 60
 Ala Gln His Phe Pro Lys Thr Thr Glu Glu Asn Pro Ile Phe Val Val
 65 70 75 80
 Ser Arg Glu Pro Leu Asn Thr Ile Gly Leu Ile Tyr Glu Lys Ile Ser
 85 90 95
 Leu Pro Lys Val His Pro Arg Tyr Asp Leu Asp Gly Asp Ala Ser Met
 100 105 110
 Ala Lys Ala Ile Thr Gly Val Val Cys Tyr Ala Cys Arg Ile Ala Ser
 115 120 125
 Thr Leu Leu Leu Tyr Gln Glu Leu Met Arg Lys Gly Ile Arg Trp Leu
 130 135 140
 Ile Glu Leu Ile Lys Asp Asp Tyr Asn Glu Thr Val His Lys Lys Thr

145 150 155 160
Glu Val Val Ile Thr Leu Gly Phe Leu Val Ser Arg
 165 170 172

```
<210> 823
<211> 104
<212> Amino acid
<213> Homo sapiens

<220> .
<221> misc_feature
<222> (1)...(104)
<223> X = any amino acid or stop code
```

<400> 823															
Gly	Thr	Arg	Lys	Met	Gly	Pro	Thr	Val	Ser	Pro	Ile	Cys	Leu	Pro	Gly
1				5					10					15	
Thr	Trp	Gly	Asp	Tyr	Asn	Leu	Met	Asp	Gly	Asp	Leu	Gly	Leu	Ile	Ser
			20					25					30		
Gly	Trp	Gly	Arg	Thr	Glu	Lys	Arg	Asp	Arg	Ala	Asp	Arg	Leu	Lys	Ala
		35				40						45			
Gly	Arg	Ser	Pro	Ala	Ala	Gly	Xaa	Arg	Lys	Trp	Glu	Pro	Gly	Arg	Gly
50						55					60				
Asp	Pro	Thr	Trp	Glu	Glu	Ser	Glu	Glu	Asp	Val	His	Lys	Ser	Lys	Trp
65				70						75				80	
Thr	Arg	Cys	Val	Asp	Glu	Lys	Gly	Ala	Xaa	Cys	Xaa	Thr	Asp	Asn	Lys
				85					90					95	
Arg	Pro	Leu	Arg	Cys	Gly	Val	Thr								
		100				104									

```
<210> 824
<211> 99
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(99)
<223> X = any amino acid or stop code
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[illegible]

99

<210> 825
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(111)
 <223> X = any amino acid or stop code

<400> 825
 Pro Val Pro Leu Pro His Pro Ile Leu Glu Val Cys Pro Gly Gln Xaa
 1 5 10 15
 Glu Pro Gln Ser Ala Ile Ser Leu Thr Ala Phe Gln Val Gln Ala Gly
 20 25 30
 Ala Ser Arg Ala Ser Pro Gly Pro Pro Ala Pro Ser Ser Ser Lys Pro
 35 40 45
 Gly Arg Lys Ala Lys Val Ala Ser Pro Cys Pro Asp Arg Pro Ala Pro
 50 55 60
 Pro Pro Thr Xaa Pro Arg Pro Ala Ala Ala Pro Gly Ser Glu Ser Ser
 65 70 75 80
 Pro Arg Pro Pro Arg Pro Arg Thr Gly Arg Arg Gln Gln Arg Ala His
 85 90 95
 Ala Arg Arg Ala Ala Arg Thr Ala Pro Trp Arg Pro Ser Cys
 100 105 110 111

<210> 826
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<400> 826
 His Glu Gly Arg Arg Arg Gly Trp Ala Ser Ala Ser Gln Arg Phe Leu
 1 5 10 15
 Arg Asn Trp Ala Phe Leu Thr Pro Ser Lys Val Arg Arg Leu Lys Gly
 20 25 30
 Gln Lys Ala Phe Gly Lys Leu Pro Ser His Ser Asp Thr Ser Leu Thr
 35 40 45
 Ser Asp Leu Gly Phe His His Arg Phe Asn Pro Asn Ala Ser Ser Ser
 50 55 60
 Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly Arg
 65 70 75 80
 Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Val Ser Gly Leu
 85 90 95

<210> 827
 <211> 33
 <212>Amino acid
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(33)
 <223> X = any amino acid or stop code

<400> 827
 Gly Arg Asn Ile Met His Tyr Pro Asn Gly His Ala Ile Cys Ile Ala
 1 5 10 15
 Asn Gly His Cys Ile Ile Leu Xaa Asn Ser His Asn Ile Lys Val Trp
 20 25 30
 Val
 33

<210> 828
 <211> 178
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(178)
 <223> X = any amino acid or stop code

<400> 828
 Ile Asn Leu Gly Asn Thr Cys Tyr Met Asn Ser Val Ile Xaa Ala Leu
 1 5 10 15
 Phe Met Ala Thr Asp Phe Arg Arg Gln Val Leu Ser Leu Asn Leu Asn
 20 25 30
 Gly Cys Asn Ser Leu Met Lys Lys Leu Gln His Leu Phe Ala Phe Leu
 35 40 45
 Ala His Thr Gln Arg Glu Ala Tyr Ala Pro Arg Ile Phe Phe Glu Ala
 50 55 60
 Ser Arg Pro Pro Trp Phe Thr Pro Arg Ser Gln Gln Asp Cys Ser Glu
 65 70 75 80
 Tyr Leu Arg Phe Leu Leu Asp Arg Leu His Glu Glu Glu Lys Ile Leu
 85 90 95
 Lys Val Gln Ala Ser His Lys Pro Ser Glu Ile Leu Glu Cys Ser Glu
 100 105 110
 Thr Ser Leu Gln Glu Val Ala Ser Lys Ala Ala Val Leu Thr Glu Thr
 115 120 125
 Pro Arg Thr Ser Asp Gly Glu Lys Thr Leu Ile Glu Lys Met Phe Gly
 130 135 140
 Gly Lys Leu Arg Thr His Ile Arg Cys Leu Asn Cys Thr Ser Thr Ser
 145 150 155 160
 Gln Lys Val Glu Ala Phe Thr Asp Leu Ser Leu Ala Phe Trp Pro Ser
 165 170 175
 Ser Ser
 178

<210> 829
 <211> 43
 <212> Amino acid
 <213> Homo sapiens
 <220>

<221> misc_feature
 <222> (1)...(43)
 <223> X = any amino acid or stop code

<400> 829
 Ala Arg Asp Asp Pro Arg Val Arg Leu Ser Leu Ser Pro Asn Phe Phe
 1 . 5 10 15
 Xaa Leu Ala Ser Lys Leu Gly Lys Gln Trp Thr Pro Leu Ile Ile Leu
 20 25 30
 Ala Asn Ser Leu Ser Gly Thr Asn Met Gly Glu
 35 40 43

<210> 830
 <211> 259
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> X = any amino acid or stop code

<400> 830
 Met His Arg Ile Lys Leu Asn Asp Arg Met Thr Phe Pro Glu Glu Leu
 1 5 10 15
 Asp Met Ser Thr Phe Ile Asp Val Glu Asp Glu Lys Ser Pro Gln Thr
 20 25 30
 Glu Ser Cys Thr Asp Ser Gly Ala Glu Asn Glu Gly Ser Cys His Ser
 35 40 45
 Asp Gln Met Ser Asn Asp Phe Ser Asn Asp Asp Gly Val Asp Glu Gly
 50 55 60
 Ile Cys Leu Glu Thr Asn Ser Gly Thr Glu Lys Ile Ser Lys Ser Gly
 65 70 75 80
 Leu Glu Lys Asn Ser Leu Ile Tyr Glu Leu Phe Ser Val Met Val His
 85 90 95
 Ser Gly Ser Ala Ala Gly Gly His Tyr Tyr Ala Cys Ile Lys Ser Phe
 100 105 110
 Ser Asp Glu Gln Trp Tyr Ser Phe Asn Asp Gln His Val Ser Arg Ile
 115 120 125
 Thr Gln Glu Asp Ile Lys Lys Thr His Gly Gly Ser Ser Gly Ser Arg
 130 135 140
 Gly Tyr Tyr Ser Ser Ala Phe Ala Ser Ser Thr Asn Ala Tyr Met Leu
 145 150 155 160
 Ile Tyr Arg Leu Lys Asp Pro Ala Arg Asn Ala Lys Phe Leu Glu Val
 165 170 175
 Asp Glu Tyr Pro Glu His Ile Lys Asn Leu Val Gln Lys Glu Arg Glu
 180 185 190
 Leu Glu Glu Gln Glu Lys Arg Gln Arg Glu Ile Glu Arg Asn Thr Cys
 195 200 205
 Lys Ile Lys Leu Phe Cys Leu His Pro Thr Lys Gln Val Met Met Glu
 210 215 220
 Asp Xaa Ile Glu Val His Lys Asp Lys Thr Leu Lys Glu Ala Val Glu
 225 230 235 240
 Met Ala Tyr Lys Met Met Asp Leu Glu Glu Val Ile Pro Leu Asp Cys
 245 250 255

Cys Arg Leu
259

<210> 831
<211> 200
<212> Amino acid
<213> Homo sapiens

<400> 831
Ser Val Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met
1 5 10 15
Val Thr Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala
20 25 30
Gln His Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly
35 40 45
Gln Ala Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys
50 55 60
Ala Arg Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly
65 70 75 80
Gln Glu Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser
85 90 95
Leu Leu Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu
100 105 110
Ala Thr Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu
115 120 125
Arg Asp Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu
130 135 140
Gly Pro Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys
145 150 155 160
Gln Ser His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg
165 170 175
Arg Glu Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg
180 185 190
Leu His Thr Ala Ala Leu Pro Ala
195 200

<210> 832
<211> 225
<212> Amino acid
<213> Homo sapiens

<400> 832
Ile Thr Ser Val Asp Pro Arg Val Arg Gly Asn Ala Ser Thr Gly Tyr
1 5 10 15
Gly Lys Ile Trp Leu Asp Asp Val Ser Cys Asp Gly Asp Glu Ser Asp
20 25 30
Leu Trp Ser Cys Arg Asn Ser Gly Trp Gly Asn Asn Asp Cys Ser His
35 40 45
Ser Glu Asp Val Gly Val Ile Cys Ser Asp Ala Ser Asp Met Glu Leu
50 55 60
Arg Leu Val Gly Gly Ser Ser Arg Cys Ala Gly Lys Val Glu Val Asn
65 70 75 80
Val Gln Gly Ala Val Gly Ile Leu Cys Ala Asn Gly Trp Gly Met Asn
85 90 95

Ile Ala Glu Val Val Cys Arg Gln Leu Glu Cys Gly Ser Ala Ile Arg
 100 105 110
 Val Ser Arg Glu Pro His Phe Thr Glu Arg Thr Leu His Ile Leu Met
 115 120 125
 Ser Asn Ser Gly Cys Ala Gly Gly Glu Ala Ser Leu Trp Asp Cys Ile
 130 135 140
 Arg Trp Glu Trp Lys Gln Thr Ala Cys His Leu Asn Met Glu Ala Ser
 145 150 155 160
 Leu Ile Cys Ser Ala His Arg Gln Pro Arg Leu Val Gly Ala Asp Met
 165 170 175
 Pro Cys Ser Gly Arg Val Glu Val Lys His Ala His Thr Trp Arg Ser
 180 185 190
 Val Cys Asp Ser Asp Phe Ser Leu His Ala Ala Asn Val Leu Cys Arg
 195 200 205
 Glu Leu Asn Cys Gly Asp Ala Ile Ser Leu Ser Val Gly Asp His Phe
 210 215 220
 Gly
 225

<210> 833
 <211> 206
 <212> Amino acid
 <213> Homo sapiens

<400> 833
 Ser Asn Tyr Pro Ser Ser Arg Phe Arg Val Ala Gly Ile Thr Gly Val
 1 5 10 15
 Lys Leu Gly Met Arg Ser Ile Pro Ile Ala Thr Ala Cys Thr Ile Tyr
 20 25 30
 His Lys Phe Phe Cys Glu Thr Asn Leu Asp Ala Tyr Asp Pro Tyr Leu
 35 40 45
 Ile Ala Met Ser Ser Ile Tyr Leu Ala Gly Lys Val Glu Glu Gln His
 50 55 60
 Leu Arg Thr Arg Asp Ile Ile Asn Val Ser Asn Arg Tyr Phe Asn Pro
 65 70 75 80
 Ser Gly Glu Pro Leu Glu Leu Asp Ser Arg Phe Trp Glu Leu Arg Asp
 85 90 95
 Ser Ile Val Gln Cys Glu Leu Leu Met Leu Arg Val Leu Arg Phe Gln
 100 105 110
 Val Ser Phe Gln His Pro His Lys Tyr Leu Leu His Tyr Leu Val Ser
 115 120 125
 Leu Gln Asn Trp Leu Asn Arg His Ser Trp Gln Arg Thr Pro Val Ala
 130 135 140
 Val Thr Ala Trp Ala Leu Leu Arg Asp Ser Tyr His Gly Ala Leu Cys
 145 150 155 160
 Leu Arg Phe Gln Ala Gln His Ile Ala Val Ala Val Leu Tyr Leu Ala
 165 170 175
 Leu Gln Val Tyr Gly Val Glu Val Pro Ala Glu Val Glu Ala Asp Glu
 180 185 190
 Ala Val Gly Trp Gln Ile Tyr Ala Met Asp Thr Glu Ile Pro
 195 200 205 206

<210> 834
 <211> 86
 <212> Amino acid
 <213> Homo sapiens

<400> 834

```

Arg Gly Ser Arg His Ala Val His Gly Trp Ala Phe Gly Leu Leu Phe
 1           5           10           15
Ile Asn Lys Glu Ser Val Val Met Ala Tyr Leu Phe Thr Thr Phe Asn
           20           25           30
Ala Phe Gln Gly Val Phe Ile Phe Val Phe His Cys Ala Leu Gln Lys
           35           40           45
Lys Val Arg Ser Arg Arg Gly Pro Gly Ser Gln Pro Pro Leu Glu Thr
           50           55           60
Phe Pro Gly Tyr Pro Gly Glu Gly Gly Glu Gly Gly Gly Asp Ser Gly
 65           70           75           80
Ala Pro Ser Ser Pro Gln
           85 86

```

<210> 835

<211> 110

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(110)

<223> X = any amino acid or stop code

<400> 835

```

Ala Arg Lys Asp Asp Leu Pro Pro Asn Met Arg Phe His Glu Glu Lys
 1           5           10           15
Arg Leu Asp Phe Glu Trp Thr Leu Lys Ala Gly Xaa Glu Lys Gly Xaa
           20           25           30
Pro Ser Lys Xaa Asn Lys Gly Trp Glu Gly Gln Glu Xaa Xaa Xaa Thr
           35           40           45
Val Arg Asp Xaa Gly Ile Ser Xaa Xaa Val Lys Pro Gln His Leu Ser
           50           55           60
Xaa Ala Leu Gln Met Ala Leu Lys Arg Val Tyr Thr Leu Leu Ser Ser
 65           70           75           80
Trp Asn Cys Leu Glu Asp Phe Asp Gln Ile Phe Trp Gly Gln Lys Ser
           85           90           95
Ala Leu Ala Gly Gln Trp Phe Pro Glu Val Ser Ile Ile Pro
           100           105           110

```

<210> 836

<211> 70

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(70)

<223> X = any amino acid or stop code

<400> 836

Gly Lys Gln Gln Arg Glu Thr Leu Arg Arg Pro Ser Pro Thr Ile Ser
 1 5 10 15
 Val Gln Arg Ala Gly Ser Pro Glu His Ser Ser Ala Ser His Xaa His
 20 25 30
 Ser Pro Cys Pro Ala Pro Gly Gln Arg Val Leu Pro Thr Ala Leu Cys
 35 40 45
 Thr Leu Met Thr Ser Lys His Phe His Gly Cys Pro Leu Ala Gly Gln
 50 55 60
 Gly Arg Ala Val Thr Leu
 65 70

<210> 837
 <211> 473
 <212> Amino acid
 <213> Homo sapiens

<400> 837
 Gly Val Cys Gly Leu Pro Arg Phe Cys Gly Ser Ile Ile Leu Cys His
 1 5 10 15
 Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp
 20 25 30
 Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly Ser Phe Gly Ser Val
 35 40 45
 Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys Glu Val Ala Val Lys Lys
 50 55 60
 Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile Leu Ser Val Leu Ser His
 65 70 75 80
 Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile Leu Glu Pro Pro Asn Tyr
 85 90 95
 Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly Ser Leu Tyr Asp Tyr Ile
 100 105 110
 Asn Ser Asn Arg Ser Glu Glu Met Asp Met Asp His Ile Met Thr Trp
 115 120 125
 Ala Thr Asp Val Ala Lys Gly Met His Tyr Leu His Met Glu Ala Pro
 130 135 140
 Val Lys Val Ile His Arg Asp Leu Lys Ser Arg Asn Val Val Ile Ala
 145 150 155 160
 Ala Asp Gly Val Leu Lys Ile Cys Asp Phe Gly Ala Ser Arg Phe His
 165 170 175
 Asn His Thr Thr His Met Ser Leu Val Gly Thr Phe Pro Trp Met Ala
 180 185 190
 Pro Glu Val Ile Gln Ser Leu Pro Val Ser Glu Thr Cys Asp Thr Tyr
 195 200 205
 Ser Tyr Gly Val Val Leu Trp Glu Met Leu Thr Arg Glu Val Pro Phe
 210 215 220
 Lys Gly Leu Glu Gly Leu Gln Val Ala Trp Leu Val Val Glu Lys Asn
 225 230 235 240
 Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro Arg Ser Phe Ala Glu Leu
 245 250 255
 Leu His Gln Cys Trp Glu Ala Asp Ala Lys Lys Arg Pro Ser Phe Lys
 260 265 270
 Gln Ile Ile Ser Ile Leu Glu Ser Met Ser Asn Asp Thr Ser Leu Pro
 275 280 285
 Asp Lys Cys Asn Ser Phe Leu His Asn Lys Ala Glu Trp Arg Cys Glu
 290 295 300
 Ile Glu Ala Thr Leu Glu Arg Leu Lys Lys Leu Glu Arg Asp Leu Ser
 305 310 315 320
 Phe Lys Glu Gln Glu Leu Lys Glu Arg Glu Arg Arg Leu Lys Met Trp
 325 330 335

Glu Gln Lys Leu Thr Glu Gln Ser Asn Thr Pro Leu Leu Leu Pro Leu
 340 345 350
 Ala Ala Arg Met Ser Glu Glu Ser Tyr Phe Glu Ser Lys Thr Glu Glu
 355 360 365
 Ser Asn Ser Ala Glu Met Ser Cys Gln Ile Thr Ala Thr Ser Asn Gly
 370 375 380
 Glu Gly His Gly Met Asn Pro Ser Leu Gln Ala Met Met Leu Met Gly
 385 390 395 400
 Phe Gly Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser
 405 410 415
 Gly Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr
 420 425 430
 Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser Asp
 435 440 445
 Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Asp Gly Glu Glu
 450 455 460
 Glu Tyr Asn Asp Met Asp Asn Ser Glu
 465 470 473

<210> 838
 <211> 48
 <212> Amino acid
 <213> Homo sapiens

<400> 838
 Met Leu Trp Glu Thr Gly Cys Ser Ala Ala Cys Arg Val Thr Val Ser
 1 5 10 15
 Pro Thr Val Thr Phe Ala Thr Phe Ser Thr Arg Gly Ile Asp Ala Met
 20 25 30
 Arg Pro Gly Pro Ser Phe Leu Trp Arg Gln Gln Leu Ser Gln Gly *
 35 40 45 47

<210> 839
 <211> 116
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(116)
 <223> X = any amino acid or stop code

<400> 839
 Pro Thr Leu Gly Asp Gln Pro Asp Leu His Ser Ile Thr Arg Ala Ser
 1 5 10 15
 Arg Pro Lys Leu Cys Thr Arg Lys Asn Cys Asn Pro Leu Thr Ile Thr
 20 25 30
 Val His Asp Pro Asn Ser Thr Gln Xaa Tyr Tyr Gly Met Ser Trp Glu
 35 40 45
 Leu Arg Phe Tyr Ile Pro Gly Phe Asp Val Gly Thr Met Phe Thr Ile
 50 55 60
 Gln Lys Ile Leu Val Ser Trp Ser Pro Pro Lys Pro Ile Gly Pro Leu
 65 70 75 80
 Thr Asp Leu Gly Asp Pro Met Phe Gln Lys Pro Pro Asn Lys Val Asp

```

      85      90      95
Leu Thr Val Pro Pro Phe Leu Val Ile Lys Asp Thr Leu Gln Lys
      100      105      110
Phe Glu Lys Ile
      115 116

```

```

<210> 840
<211> 138
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 840
Ser Leu Asn Asn Val Thr Leu Pro Gln Ala Lys Thr Glu Lys Asp Phe
 1      5      10      15
Ile Gln Leu Cys Thr Pro Gly Val Ile Lys Gln Glu Lys Leu Gly Thr
      20      25      30
Val Tyr Cys Gln Ala Ser Ser Pro Gly Ala Asn Met Ile Gly Asn Lys
      35      40      45
Met Ser Ala Ile Ser Val His Gly Val Ser Thr Ser Gly Gly Gln Met
      50      55      60
Tyr His Tyr Asp Met Asn Thr Ala Ser Leu Ser Gln Gln Xaa Asp Gln
      65      70      75      80
Lys Pro Ile Phe Asn Val Ile Pro Pro Ile Pro Val Gly Ser Glu Asn
      85      90      95
Trp Asn Arg Cys Gln Gly Ser Gly Asp Asp Asn Leu Thr Ser Leu Gly
      100      105      110
Thr Leu Asn Phe Pro Gly Arg Thr Val Ser Phe Ser Phe Glu Met Glu
      115      120      125
Ser Arg Ser Val Ala Gln Ala Gly Val Gln
      130      135      138

```

```

<210> 841
<211> 82
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(82)
<223> X = any amino acid or stop code

```

```

<400> 841
Arg His Thr Gln Glu Cys Arg Cys Pro His Thr His Ile His Thr His
 1      5      10      15
Thr His Ser His Thr His Ser His Thr His Ser His Ser His Ser His
      20      25      30
Thr Thr Pro Arg Cys Ser His Thr Gln Pro Pro His Ala Gln Ala Pro
      35      40      45
Ala Leu Cys Xaa Ser Xaa Glu Asp Arg Gly Gln Pro Thr Trp Lys Leu

```

```

      50              55              60
Cys Ala His Arg Pro Arg Leu Lys Val Ile Lys Glu Gly Gly Trp Leu
 65              70              75              80
Gly Gly
 82

```

```

<210> 842
<211> 58
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(58)
<223> X = any amino acid or stop code

```

```

<400> 842
Asn Tyr Ser Leu Ser Val Tyr Leu Val Arg Gln Leu Thr Ala Gly Thr
 1              5              10              15
Leu Leu Gln Lys Leu Arg Ala Lys Gly Ile Arg Asn Pro Asp His Ser
              20              25              30
Arg Ala Leu Ser Glu Xaa His Leu Ser Ser Leu Pro His Leu Ile Trp
              35              40              45
Ile Gln Val Phe Leu Ala Leu Gln Pro Ser
 50              55              58

```

```

<210> 843
<211> 230
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(230)
<223> X = any amino acid or stop code

```

```

<400> 843
Ala Thr Tyr Ile Val Asp Phe Gly Phe Ser Thr Thr Phe Arg Glu Gly
 1              5              10              15
Gln Met Leu Thr Ala Phe Cys Gly Met Tyr Pro Tyr Val Ala Pro Glu
              20              25              30
Arg Ser Leu Gly Gln Ala Cys Gln Xaa Pro Ala Arg Asp Ile Gln Ser
              35              40              45
Leu Ser Val Ile Leu Tyr Phe Arg Asn Thr Val Gly Arg Arg Ala Arg
 50              55              60
Thr Leu Pro Phe Tyr Ser Ala Glu Ala Ser Lys Leu Gln Glu Lys Ile
 65              70              75              80
Leu Thr Gly Arg Tyr His Ala Pro Pro Leu Leu Ala Leu Gln Leu Asp
              85              90              95
Ser Leu Ile Lys Leu Leu Met Leu Asn Ala Arg Lys Cys Pro Ser Leu
              100              105              110
Xaa Leu Met Lys Asn Pro Trp Val Lys Ser Ser Gln Lys Met Pro Leu
              115              120              125
Ile Pro Tyr Glu Glu Pro Leu Arg Gly Pro Pro Gln Thr Ile Gln Leu

```

```

      130              135              140
Met Val Ala Met Gly Phe Gln Ala Lys Asn Ile Ser Val Ala Ile Ile
145              150              155              160
Glu Arg Lys Phe Asn Tyr Pro Met Ala Thr Tyr Leu Ile Leu Glu His
      165              170              175
Thr Lys Gln Glu Arg Lys Cys Ser Thr Ile Arg Glu Leu Ser Leu Pro
      180              185              190
Pro Gly Val Pro Thr Ser Pro Ser Pro Ser Thr Glu Leu Ser Thr Phe
      195              200              205
Pro Leu Ser Leu Met Arg Ala His Arg Glu Pro Ala Phe Asn Val Gln
      210              215              220
Pro Pro Glu Glu Ser Gln
225              230

```

```

<210> 844
<211> 258
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> X = any amino acid or stop code

```

```

      <400> 844
Ala Lys Gln Glu Leu Ala Lys Leu Met Arg Ile Glu Asp Pro Ser Leu
 1              5              10              15
Leu Asn Ser Arg Val Leu Leu His His Ala Lys Ala Gly Thr Ile Ile
      20              25              30
Ala Arg Gln Gly Asp Gln Asp Val Ser Leu His Phe Val Leu Trp Gly
      35              40              45
Cys Leu His Val Tyr Gln Arg Met Ile Asp Lys Ala Glu Asp Val Cys
      50              55              60
Leu Phe Val Ala Gln Pro Gly Glu Leu Val Gly Gln Leu Ala Val Leu
      65              70              75              80
Thr Gly Glu Pro Leu Ile Phe Thr Leu Arg Ala Gln Arg Asp Cys Thr
      85              90              95
Phe Leu Arg Ile Ser Lys Ser Asp Phe Tyr Glu Ile Met Arg Ala Gln
      100              105              110
Pro Ser Val Val Leu Ser Ala Ala His Thr Val Ala Ala Arg Met Ser
      115              120              125
Pro Phe Val Arg Gln Met Asp Phe Ala Ile Asp Trp Thr Ala Val Glu
      130              135              140
Ala Gly Arg Ala Leu Tyr Arg Cys Ser Ser His Arg Ala Ala Gln Ala
145              150              155              160
Arg Pro Arg Gly Gly Asp Leu Gly Val Val Arg Pro Cys Xaa Pro Pro
      165              170              175
Arg Pro Leu Arg Gln Gly Asp Arg Ser Asp Cys Thr Tyr Ile Val Leu
      180              185              190
Asn Gly Arg Leu Arg Ser Val Ile Gln Arg Gly Ser Gly Lys Lys Glu
      195              200              205
Leu Val Gly Glu Tyr Gly Arg Gly Asp Leu Ile Gly Val Val Ser Ala
      210              215              220
Thr Pro Thr His Xaa Pro Leu Ala Phe Ser Arg Pro Val Pro Arg Gln
225              230              235              240
Leu Thr Arg Ile Ile Pro Gly Asn Pro Gly Ser Gly Glu Val Phe Pro
      245              250              255
Gly Ala
258

```

<210> 845
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(235)
 <223> X = any amino acid or stop code

<400> 845
 His Ala Ser Gly Trp Thr Pro Gly Thr Thr Gln Thr Leu Gly Gln Gly
 1 5 10 15
 Thr Ala Trp Asp Thr Val Ala Ser Thr Pro Gly Thr Ser Glu Thr Thr
 20 25 30
 Ala Ser Ala Glu Gly Arg Arg Thr Pro Gly Ala Thr Arg Pro Ala Ala
 35 40 45
 Pro Gly Thr Gly Ser Trp Ala Glu Gly Ser Val Lys Ala Pro Ala Pro
 50 55 60
 Ile Pro Glu Ser Pro Pro Ser Lys Ser Arg Ser Met Ser Asn Thr Thr
 65 70 75 80
 Glu Gly Val Trp Glu Gly Thr Arg Ser Ser Val Thr Asn Arg Ala Arg
 85 90 95
 Ala Ser Lys Asp Arg Arg Glu Met Thr Thr Thr Lys Ala Asp Arg Pro
 100 105 110
 Arg Glu Asp Ile Glu Gly Val Arg Ile Ala Leu Asp Ala Ala Lys Lys
 115 120 125
 Val Leu Gly Thr Ile Gly Pro Ala Leu Val Ser Glu Thr Leu Ala
 130 135 140
 Trp Glu Ile Leu Pro Gln Ala Thr Pro Val Ser Lys Gln Gln Ser Gln
 145 150 155 160
 Gly Ser Ile Gly Glu Thr Thr Pro Ala Ala Gly Met Trp Thr Leu Gly
 165 170 175
 Thr Pro Ala Ala Asp Val Trp Ile Leu Gly Thr Pro Ala Ala Asp Val
 180 185 190
 Trp Thr Ser Met Glu Ala Ala Ser Gly Glu Gly Ser Ala Ala Gly Asp
 195 200 205
 Leu Asp Ala Ala Thr Gly Asp Arg Gly Pro Gln Ala Thr Leu Ser Gln
 210 215 220
 Thr Pro Ala Val Xaa Pro Trp Gly Pro Pro Gly
 225 230 235

<210> 846
 <211> 134
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(134)
 <223> X = any amino acid or stop code

<400> 846

```

Ala Gly Thr Ser Gly Thr Gly Asp Thr Gly Pro Gly Asn Thr Ala Val
 1           5           10           15
Ser Gly Thr Pro Val Val Ser Pro Gly Ala Thr Pro Gly Ala Pro Gly
          20           25           30
Ser Ser Thr Pro Gly Glu Ala Asp Ile Gly Asn Thr Ser Phe Gly Lys
          35           40           45
Ser Gly Thr Pro Thr Val Ser Ala Ala Ser Thr Thr Ser Ser Pro Val
          50           55           60
Ser Lys His Thr Asp Ala Ala Ser Ala Thr Ala Val Thr Ile Ser Gly
          65           70           75           80
Ser Lys Pro Gly Thr Pro Gly Thr Pro Gly Gly Ala Thr Ser Gly Gly
          85           90           95
Lys Ile Thr Pro Gly Ile Ala Xaa Pro Thr Leu Asp Gln Lys Ser Pro
          100          105          110
Cys Phe Ser Gly Tyr Gly Gly Tyr Phe Pro Val Asn Pro His Gln Asn
          115          120          125
Pro Cys Ala Asp Ser Leu
          130          134

```

```

<210> 847
<211> 188
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(188)
<223> X = any amino acid or stop code

```

```

<400> 847
Arg Ala His Arg Cys Cys Leu Pro Leu Pro Ser Leu Ser Cys Glu Ile
 1           5           10           15
Gln Ile Gly Phe Ser Xaa Ser Ser Ile Phe Pro Gly Gln Xaa Ala Cys
          20           25           30
Pro Cys Ser Cys Cys Arg Ser Cys Arg Arg Asn Trp Pro Gln Ser Pro
          35           40           45
Arg Cys Pro His His Pro Pro Ala Pro Cys Ser Leu Leu Leu Ser Ser
          50           55           60
Cys Leu Pro Pro Pro Leu Ser Cys Ser Trp Arg Gly Thr Ser Gly Lys
          65           70           75           80
Pro Pro Ser Gln Ser Pro Ala Ala Ser Arg Ser Met Arg Pro Arg Cys
          85           90           95
Ser Pro Arg Thr Ser Ser Leu Arg Gly Ala Ser Cys Arg Gly Pro Gly
          100          105          110
Gly Ser Ala Pro Ala Ala Ala Ser Gly Pro Arg Cys Arg Gly Cys Ser
          115          120          125
Arg Ser Pro Arg Arg Cys Ser Arg Ser Gly Cys Ala Ala Ala Ser Pro
          130          135          140
Pro Arg Ser Gln Arg Arg Ser Pro Pro Leu Ser Pro Pro Pro Phe Pro
          145          150          155          160
Thr Ser Gly Thr Leu Leu Lys Thr Ser Arg Phe Gly Ser Ala Thr
          165          170          175
Arg Glu Xaa Ser Ser Pro Arg Pro Arg Pro Arg Pro
          180          185          188

```

```

<210> 848
<211> 328
<212>Amino acid

```


<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(328)

<223> X = any amino acid or stop code

<400> 848

```

Asp Asp Val Pro Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
 1          5          10          15
Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
          20          25          30
Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
          35          40          45
Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys
          50          55          60
Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
          65          70          75          80
Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
          85          90          95
Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
          100          105          110
Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
          115          120          125
Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
          130          135          140
Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
          145          150          155          160
Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
          165          170          175
His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
          180          185          190
Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
          195          200          205
Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
          210          215          220
Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
          225          230          235          240
Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
          245          250          255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
          260          265          270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
          275          280          285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
          290          295          300
Tyr Val His Leu Thr Gly Gly Arg Arg Ser Phe Xaa Lys Thr Gln Lys
          305          310          315          320
Glu Leu Leu Gly Lys Arg Ala Ala
          325          328

```

<210> 849

<211> 98

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(98)

<223> X = any amino acid or stop code

<400> 849

```

Met Ala Thr Asp Glu Glu Asn Val Tyr Gly Leu Glu Glu Asn Ala Gln
 1           5           10           15
Ser Arg Gln Glu Ser Thr Arg Arg Leu Ile Leu Val Gly Arg Thr Gly
           20           25           30
Ala Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu Gly Gln Arg Arg Phe
           35           40           45
Phe Ser Arg Leu Gly Ala Thr Ser Val Thr Arg Ala Cys Thr Thr Gly
           50           55           60
Ser Arg Arg Trp Asp Lys Cys His Val Glu Val Val Asp Thr Pro Asp
65           70           75           80
Ile Phe Ser Ser Gln Val Ser Lys Thr Asp Pro Gly Cys Glu Glu Arg
           85           90           95
Xaa *
97

```

<210> 850

<211> 94

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(94)

<223> X = any amino acid or stop code

<400> 850

```

Thr Leu Gly Leu Arg Ser Leu Thr Lys Glu Gly Gly Gly Gly Asp
 1           5           10           15
Val Ala Ala Phe Glu Val Gly Thr Gly Ala Ala Ala Ser Arg Ala Leu
           20           25           30
Gly Gln Cys Gly Gln Leu Gln Lys Leu Ile Val Ile Phe Ile Gly Ser
           35           40           45
Leu Cys Gly Leu Cys Thr Lys Cys Ala Val Ser Asn Asp Leu Thr Gln
           50           55           60
Gln Glu Ile Gln Thr Pro Glu Ile Gln Gln Arg Asn Ala Xaa Cys Asp
65           70           75           80
Ser Arg Val Thr Phe Thr Asn Glu Gly Gly Arg Trp Trp Gly
           85           90           94

```

<210> 851

<211> 50

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(50)

<223> X = any amino acid or stop code

<400> 851

```

Phe Phe Phe Leu Val Glu Thr Arg Phe His His Ile Gly Gln Ala Gly
 1           5           10           15
Leu Glu Leu Leu Thr Leu Ser Ile Lys Xaa Ser Ala Arg Leu Gly Leu
          20           25           30
Pro Lys Cys Trp Asp Asp Arg Arg Glu Pro Pro Tyr Leu Ala Gly Phe
          35           40           45
Met Ile
 50

```

<210> 852

<211> 143

<212>Amino acid

<213> Homo sapiens

<400> 852

```

Arg Arg Ser Pro Pro Pro Ala Pro Pro Pro Leu Pro Ser Pro Leu Ser
 1           5           10           15
Pro Pro Pro Arg Ala Pro Val Ser Pro Ala Ser Thr Met Pro Ile Leu
          20           25           30
Leu Phe Leu Ile Asp Thr Ser Ala Ser Met Asn Gln Arg Ser His Leu
          35           40           45
Gly Thr Thr Tyr Leu Asp Thr Ala Lys Gly Ala Val Glu Thr Phe Met
          50           55           60
Lys Leu Arg Ala Arg Asp Pro Ala Ser Arg Gly Asp Arg Tyr Met Leu
          65           70           75           80
Val Thr Phe Glu Glu Pro Pro Tyr Ala Ile Lys Ala Gly Trp Lys Glu
          85           90           95
Asn His Ala Thr Phe Met Asn Glu Leu Lys Asn Leu Gln Ala Glu Gly
          100          105          110
Leu Thr Thr Leu Gly Gln Ser Leu Arg Thr Ala Phe Asp Leu Leu Asn
          115          120          125
Leu Asn Arg Leu Val Thr Gly Ile Asp Asn Tyr Gly Gln Val Gly
          130          135          140          143

```

<210> 853

<211> 154

<212>Amino acid

<213> Homo sapiens

<400> 853

```

Asn Cys Arg Thr Tyr Val Phe Cys Phe Val Leu Val Phe Arg Leu Leu
 1           5           10           15
Phe Leu His Gly Ser Pro Leu Ser Pro Ser Leu Leu Ser Arg Ala Gly
          20           25           30
Leu Leu Cys Gly Ser Ala Glu Asn Pro Thr Pro Phe Leu Cys Gly Ile
          35           40           45
Thr Met Ala Ala Gly Val Ser Leu Leu Ala Leu Val Val Arg Val Ile
          50           55           60
Leu Ser Thr Ala Ile Leu Cys Pro Ser Gly Ala Ser Arg Arg Gln Arg
          65           70           75           80
Ser Ser Glu Val Glu Trp Gly Thr Asp Ser Gly Val Tyr Arg Leu Tyr

```

```

      85      90      95
Cys Trp Arg Val Gly Phe Leu Gly Pro Gly Gly Glu Leu Arg Leu Gly
      100      105      110
Leu Ser Glu Ala Arg Gly Gly Arg Val Trp Gly Arg Gly Glu Lys Arg
      115      120      125
Cys Arg Val Trp Ala Val Arg Ser Leu Arg Lys Gly Phe Gly Ser Val
      130      135      140
Ala Ala Leu Arg Arg Gly Ile Trp Ala Gly
145      150      154

```

```

<210> 854
<211> 90
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(90)
<223> X = any amino acid or stop code

```

```

<400> 854
Val Thr Pro Thr Pro Pro Gln Tyr Tyr Thr Cys Ser Cys Val Leu Gly
  1      5      10      15
Phe Ile Ala Cys Ser Ile Phe Leu Gln Met Ser Leu Lys Pro Lys Val
      20      25      30
Met Leu Leu Thr Val Ala Leu Val Ala Cys Leu Val Leu Phe Asn Leu
      35      40      45
Ser Gln Cys Trp Gln Arg Asp Cys Cys Ser Gln Gly Leu Gly Asn Leu
      50      55      60
Thr Glu Pro Ser Gly Thr Asn Arg Xaa Gly Pro Ala Ala Val Ser Trp
      65      70      75      80
Ala Ser Leu Pro Ala Pro Ser Ser Cys Arg
      85      90

```

```

<210> 855
<211> 61
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(61)
<223> X = any amino acid or stop code

```

```

<400> 855
Gly Lys Ala Gly Gly Ala Ala Gly Leu Phe Ala Lys Gln Val Gln Lys
  1      5      10      15
Lys Phe Ser Arg Ala Gln Glu Lys Xaa Thr Arg Arg Phe Gly Lys Thr
      20      25      30
Cys Gln Pro Glu Glu Arg Ala Arg Glu Glu Arg Gln Glu Gly Pro Glu
      35      40      45
Ile Glu Phe Gly Phe Ser Phe Phe Ser Leu Ser Leu Tyr
      50      55      60      61

```

<210> 856
 <211> 779
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(779)
 <223> X = any amino acid or stop code

<400> 856
 Pro Lys Arg Leu Phe Leu Phe Gln Asp Val Asn Thr Leu Gln Gly Gly
 1 5 10 15
 Gly Gln Pro Val Val Thr Pro Ser Val Gln Pro Ser Leu Gln Pro Ala
 20 25 30
 His Pro Ala Leu Pro Gln Met Thr Ser Gln Ala Pro Gln Pro Ser Val
 35 40 45
 Thr Gly Leu Gln Ala Pro Ser Ala Ala Leu Met Gln Val Ser Ser Leu
 50 55 60
 Asp Ser His Ser Ala Val Ser Gly Asn Ala Gln Ser Phe Gln Pro Tyr
 65 70 75 80
 Ala Gly Met Gln Ala Tyr Ala Tyr Pro Gln Ala Ser Ala Val Thr Ser
 85 90 95
 Gln Leu Gln Pro Val Arg Pro Leu Tyr Pro Ala Pro Leu Ser Gln Pro
 100 105 110
 Pro His Phe Gln Gly Ser Gly Asp Met Ala Ser Phe Leu Met Thr Glu
 115 120 125
 Ala Arg Gln His Asn Thr Glu Ile Arg Met Ala Val Ser Lys Val Ala
 130 135 140
 Asp Lys Met Asp His Leu Met Thr Lys Val Glu Glu Leu Gln Lys His
 145 150 155 160
 Ser Ala Gly Asn Ser Met Leu Ile Pro Ser Met Ser Val Thr Met Glu
 165 170 175
 Thr Ser Met Ile Met Ser Asn Ile Gln Arg Ile Ile Gln Glu Asn Glu
 180 185 190
 Arg Leu Lys Gln Glu Ile Leu Glu Lys Ser Asn Arg Ile Glu Glu Gln
 195 200 205
 Asn Asp Lys Ile Ser Glu Leu Ile Glu Arg Asn Gln Arg Tyr Val Glu
 210 215 220
 Gln Ser Asn Leu Met Met Glu Lys Arg Asn Asn Ser Leu Gln Thr Ala
 225 230 235 240
 Thr Glu Asn Thr Gln Ala Arg Val Leu His Ala Glu Gln Glu Lys Ala
 245 250 255
 Lys Val Thr Glu Glu Leu Ala Ala Ala Thr Ala Gln Val Ser His Leu
 260 265 270
 Gln Leu Lys Met Thr Ala His Gln Lys Lys Glu Thr Glu Leu Gln Met
 275 280 285
 Gln Leu Thr Glu Ser Leu Lys Glu Thr Asp Leu Leu Arg Gly Gln Leu
 290 295 300
 Thr Lys Val Gln Ala Lys Leu Ser Glu Leu Gln Glu Thr Ser Glu Gln
 305 310 315 320
 Ala Gln Ser Lys Phe Lys Ser Glu Lys Gln Asn Arg Lys Gln Leu Glu
 325 330 335
 Leu Lys Val Thr Ser Leu Glu Glu Glu Leu Thr Asp Leu Arg Val Glu
 340 345 350
 Lys Glu Ser Leu Glu Lys Asn Leu Ser Glu Arg Lys Lys Lys Ser Ala
 355 360 365
 Gln Glu Arg Ser Gln Ala Glu Glu Glu Ile Asp Glu Ile Arg Lys Ser
 370 375 380

```

Tyr Gln Glu Glu Leu Asp Lys Leu Arg Gln Leu Leu Lys Lys Thr Arg
385          390          395          400
Val Ser Thr Asp Gln Ala Ala Ala Glu Gln Leu Ser Leu Val Gln Ala
          405          410          415
Glu Leu Gln Thr Gln Trp Glu Ala Lys Cys Glu His Leu Leu Ala Ser
          420          425          430
Ala Lys Asp Glu His Leu Gln Gln Tyr Gln Glu Val Cys Ala Gln Arg
          435          440          445
Asp Ala Tyr Gln Gln Lys Leu Val Gln Leu Gln Glu Lys Ser Val Cys
          450          455          460
Phe Ala Cys Leu Ala Leu Gln Ala Gln Ile Thr Ala Leu Thr Lys Gln
465          470          475          480
Asn Glu Gln His Ile Lys Glu Leu Glu Lys Asn Lys Ser Gln Met Ser
          485          490          495
Gly Val Glu Ala Ala Ala Ser Asp Pro Ser Glu Lys Val Lys Lys Ile
          500          505          510
Met Asn Gln Val Phe Gln Ser Leu Arg Arg Glu Phe Glu Leu Glu Glu
          515          520          525
Ser Tyr Asn Gly Arg Thr Ile Leu Gly Thr Ile Met Asn Thr Ile Lys
530          535          540
Met Val Thr Leu Gln Leu Leu Asn Gln Gln Glu Gln Glu Lys Glu Glu
545          550          555          560
Ser Ser Ser Glu Glu Glu Glu Glu Lys Ala Glu Glu Arg Pro Arg Arg
          565          570          575
Pro Ser Gln Glu Gln Ser Ala Ser Ala Ser Ser Gly Gln Pro Gln Ala
          580          585          590
Pro Leu Asn Arg Glu Arg Pro Glu Ser Pro Met Val Pro Ser Glu Gln
          595          600          605
Val Val Glu Glu Ala Val Pro Leu Pro Pro Gln Ala Leu Thr Thr Ser
610          615          620
Gln Asp Gly His Arg Arg Lys Gly Asp Ser Glu Ala Glu Ala Leu Ser
625          630          635          640
Glu Ile Lys Asp Gly Ser Leu Pro Pro Glu Leu Ser Cys Ile Pro Ser
          645          650          655
His Arg Val Leu Gly Pro Pro Thr Ser Ile Pro Pro Glu Pro Leu Gly
          660          665          670
Pro Val Ser Met Asp Ser Glu Cys Glu Glu Ser Leu Ala Ala Ser Pro
          675          680          685
Met Ala Ala Lys Pro Asp Asn Pro Ser Gly Lys Val Cys Val Gln Gly
690          695          700
Lys Xaa Ala Pro Asp Gly Pro Thr Tyr Lys Glu Ser Ser Thr Arg Leu
705          710          715          720
Phe Pro Gly Phe Gln Asp Pro Glu Glu Gly Asp Pro Leu Ala Leu Gly
          725          730          735
Leu Glu Ser Pro Gly Glu Pro Gln Pro Pro Gln Leu Gln Gly Lys Val
          740          745          750
Asp Val His Xaa Val Pro Pro Val Pro His Lys Gly Ala Phe Gln Glu
          755          760          765
Gln Glu Gly Arg Phe Pro Gln Phe Cys Arg Glu
          770          775          779

```

<210> 857

<211> 510

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(510)

<223> X = any amino acid or stop code

<400> 857

Ser	Glu	Thr	Ala	Gln	Gln	Ile	Ile	Asp	Arg	Leu	Arg	Val	Lys	Leu	Ala
1				5				10						15	
Lys	Glu	Pro	Gly	Ala	Asn	Leu	Phe	Leu	Met	Ala	Val	Gln	Asp	Ile	Arg
			20					25					30		
Val	Gly	Gly	Arg	Gln	Ser	Asn	Ala	Ser	Tyr	Gln	Tyr	Thr	Leu	Leu	Ser
		35					40					45			
Asp	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Trp	Glu	Pro	Lys	Ile	Arg	Lys	Lys
	50					55					60				
Leu	Ala	Thr	Leu	Pro	Glu	Leu	Ala	Asp	Val	Asn	Ser	Asp	Gln	Gln	Asp
	65				70					75					80
Asn	Gly	Ala	Glu	Met	Asn	Leu	Val	Tyr	Asp	Arg	Asp	Thr	Met	Ala	Arg
				85					90					95	
Leu	Gly	Ile	Asp	Val	Gln	Ala	Ala	Asn	Ser	Leu	Leu	Asn	Asn	Ala	Phe
			100					105					110		
Gly	Gln	Arg	Gln	Ile	Ser	Thr	Ile	Tyr	Gln	Pro	Met	Asn	Gln	Tyr	Lys
		115					120					125			
Val	Val	Met	Glu	Val	Asp	Pro	Arg	Tyr	Thr	Gln	Asp	Ile	Ser	Ala	Leu
	130					135					140				
Glu	Lys	Met	Phe	Val	Ile	Asn	Asn	Glu	Gly	Lys	Ala	Ile	Pro	Leu	Ser
	145				150					155				160	
Tyr	Phe	Ala	Lys	Trp	Gln	Pro	Ala	Asn	Ala	Pro	Leu	Ser	Val	Asn	His
			165						170					175	
Gln	Gly	Leu	Ser	Ala	Ala	Leu	Thr	Ile	Ser	Phe	Asn	Leu	Pro	Thr	Gly
		180						185				190			
Lys	Ser	Leu	Ser	Asp	Ala	Ser	Ala	Ala	Ile	Asp	Arg	Ala	Met	Ser	Gln
	195					200						205			
Leu	Gly	Val	Pro	Ser	Thr	Val	Arg	Gly	Ser	Phe	Ala	Gly	Pro	Ala	Gln
	210					215					220				
Val	Phe	Gln	Glu	Thr	Met	Asn	Ser	Gln	Val	Ile	Leu	Ile	Ile	Ala	Ala
	225				230					235				240	
Ile	Ala	Thr	Val	Tyr	Ile	Val	Leu	Gly	Ile	Pro	Tyr	Glu	Arg	Tyr	Val
			245						250					255	
His	Pro	Pro	Thr	Ile	Leu	Leu	Xaa	Arg	Pro	Gly	Ala	Asn	Leu	Phe	Leu
			260					265					270		
Met	Ala	Val	Gln	Asp	Ile	Arg	Val	Gly	Gly	Arg	Gln	Ser	Asn	Ala	Ser
	275					280						285			
Tyr	Gln	Tyr	Thr	Leu	Leu	Ser	Asp	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Trp
	290					295					300				
Glu	Pro	Lys	Ile	Arg	Lys	Lys	Leu	Ala	Thr	Leu	Pro	Glu	Leu	Ala	Asp
	305				310					315				320	
Val	Asn	Ser	Asp	Gln	Gln	Asp	Asn	Gly	Ala	Glu	Met	Asn	Leu	Val	Tyr
			325						330					335	
Asp	Arg	Asp	Thr	Met	Ala	Arg	Leu	Gly	Ile	Asp	Val	Gln	Ala	Ala	Asn
			340					345					350		
Ser	Leu	Leu	Asn	Asn	Ala	Phe	Gly	Gln	Arg	Gln	Ile	Ser	Thr	Ile	Tyr
	355					360						365			
Gln	Pro	Met	Asn	Gln	Tyr	Lys	Val	Val	Met	Glu	Val	Asp	Pro	Arg	Tyr
	370					375					380				
Thr	Gln	Asp	Ile	Ser	Ala	Leu	Glu	Lys	Met	Phe	Val	Ile	Asn	Asn	Glu
	385				390					395				400	
Gly	Lys	Ala	Ile	Pro	Leu	Ser	Tyr	Phe	Ala	Lys	Trp	Gln	Pro	Ala	Asn
			405						410					415	
Ala	Pro	Leu	Ser	Val	Asn	His	Gln	Gly	Leu	Ser	Ala	Ala	Leu	Thr	Ile
			420					425					430		
Ser	Phe	Asn	Leu	Pro	Thr	Gly	Lys	Ser	Leu	Ser	Asp	Ala	Ser	Ala	Ala
	435					440						445			
Ile	Asp	Arg	Ala	Met	Ser	Gln	Leu	Gly	Val	Pro	Ser	Thr	Val	Arg	Gly
	450					455					460				
Ser	Phe	Ala	Gly	Pro	Ala	Gln	Val	Phe	Gln	Glu	Thr	Met	Asn	Ser	Gln
	465				470					475				480	
Val	Ile	Leu	Ile	Ile	Ala	Ala	Ile	Ala	Thr	Val	Tyr	Ile	Val	Leu	Gly

Ile Pro Tyr Glu Arg Tyr Val His Pro Pro Thr Ile Leu Leu
485 490 495
500 505 510

```
<210> 858
<211> 137
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(137)
<223> X = any amino acid or stop code
```

<400> 858															
Ile	Ile	Thr	Pro	Asp	Ala	Met	Gly	Cys	Gln	Lys	Asp	Ile	Ala	Glu	Lys
1				5					10					15	
Ile	Gln	Lys	Gln	Gly	Gly	Asp	Tyr	Leu	Phe	Ala	Val	Lys	Gly	Asn	Gln
			20					25					30		
Gly	Arg	Leu	Asn	Lys	Ala	Phe	Glu	Glu	Lys	Phe	Pro	Leu	Lys	Glu	Leu
		35					40					45			
Asn	Asn	Pro	Glu	His	Asp	Ser	Tyr	Ala	Ile	Ser	Glu	Lys	Ser	His	Gly
50						55					60				
Arg	Glu	Glu	Ile	Arg	Leu	His	Ile	Val	Cys	Asp	Val	Pro	Asp	Glu	Leu
65					70					75				80	
Ile	Asp	Phe	Thr	Phe	Glu	Trp	Lys	Gly	Leu	Lys	Lys	Leu	Cys	Val	Ala
				85					90					95	
Val	Ser	Phe	Arg	Ser	Ile	Ile	Ala	Glu	Gln	Lys	Lys	Glu	Pro	Glu	Met
			100					105					110		
Thr	Val	Arg	Tyr	Asn	Ile	Ser	Xaa	Leu	Gly	Ile	Ala	Gly	Asp	Ile	Ser
		115					120					125			
Val	Thr	Ala	Ile	Ser	Gly	Thr	Asp	Asp							
	130					135		137							

```
<210> 859
<211> 123
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(123)
<223> X = any amino acid or stop code
```

<400> 859															
His	Tyr	Leu	Lys	Met	Leu	Thr	Gln	Ala	Arg	Arg	Glu	Val	Ile	Ile	Ala
1				5					10						15
Asn	Ala	Tyr	Phe	Phe	Pro	Gly	Tyr	Arg	Phe	Leu	His	Ala	Leu	Arg	Lys
			20					25						30	
Ala	Ala	Arg	Arg	Gly	Val	Arg	Ile	Lys	Leu	Ile	Ile	Gln	Gly	Glu	Pro
		35				40						45			
Asp	Met	Pro	Ile	Val	Arg	Val	Gly	Ala	Arg	Leu	Leu	Tyr	Asn	Tyr	Leu
	50					55					60				
Val	Lys	Gly	Gly	Val	Gln	Val	Phe	Glu	Tyr	Arg	Arg	Arg	Pro	Leu	His


```

      65              70              75              80
Gly Lys Val Ala Leu Met Asp Asp His Trp Ala Thr Val Gly Ser Ser
      85              90              95
Asn Leu His Pro Val Ser Xaa Ser Gly Asn Leu Gln Ala Asn Val Ile
      100             105             110
Leu His Val Leu Arg Val Pro Thr Leu Asn Pro
      115             120             123

```

```

<210> 860
<211> 190
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(190)
<223> X = any amino acid or stop code

```

```

<400> 860
Cys Trp Ser Lys Ser Ala Ala Phe His Ser Lys Leu Ala Thr Thr Cys
  1              5              10              15
Ile Val Pro Val Cys Ala Ala Gly His Cys Ser Ala Ala Trp Xaa Ser
      20             25             30
Leu Arg Pro Ile Glu Ala Leu Ala Lys Glu Val Arg Glu Leu Lys Xaa
  35             40             45
His Thr Arg Xaa Leu Leu Asn Pro Ala Thr Thr Arg Glu Leu Thr Ser
  50             55             60
Leu Gly Arg Asn Leu Asn Arg Leu Leu Lys Ser Glu Arg Glu Arg Tyr
  65             70             75             80
Asp Lys Tyr Arg Thr Thr Leu Thr Asp Leu Thr His Ser Leu Lys Thr
      85             90             95
Pro Leu Ala Val Leu Gln Ser Thr Leu Arg Ser Leu Arg Ser Glu Lys
      100            105            110
Met Ser Val Ser Asp Ala Glu Pro Val Met Leu Glu Gln Ile Ser Arg
      115            120            125
Ile Ser Gln Gln Ile Gly Tyr Tyr Leu His Arg Ala Ser Met Arg Gly
      130            135            140
Gly Thr Leu Leu Ser Arg Glu Leu His Pro Val Ala Pro Leu Leu Asp
      145            150            155            160
Asn Leu Thr Ser Ala Leu Ile Lys Gly Lys Pro Arg Lys Gly Gly Asn
      165            170            175
Val Thr Val Phe Pro Phe Thr Ala Met Tyr Arg Asp Gly His
      180            185            190

```

```

<210> 861
<211> 241
<212>Amino acid
<213> Homo sapiens

```

```

<400> 861
Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys Arg Lys His Thr
  1              5              10              15
Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr Asp Leu Thr Glu
      20             25             30

```

```

Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu Leu Ile Ile Thr
   35                               40                               45
Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln Thr Pro Val Lys
   50                               55                               60
Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg Pro Tyr Phe Cys
   65                               70                               75                               80
Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys Phe Thr Met Cys
                               85                               90                               95
Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro
                               100                               105                               110
Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met
   115                               120                               125
Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile
   130                               135                               140
Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp Ile Phe Arg Met
   145                               150                               155                               160
Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly Gly Pro Phe His
                               165                               170                               175
Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val Thr Met Val Met
                               180                               185                               190
Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala Leu
   195                               200                               205
Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met
   210                               215                               220
Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu
   225                               230                               235                               240
Met
241

```

<210> 862
 <211> 45
 <212> Amino acid
 <213> Homo sapiens

```

<400> 862
Glu Lys Ala Ala Ala Asn Ile Asp Glu Val Gln Lys Ser Asp Val
  1                               5                               10                               15
Ser Ser Thr Gly Gln Gly Val Ile Asp Lys Asp Ala Leu Gly Pro Met
                               20                               25                               30
Met Leu Glu Val Ala His Leu His Phe Ser Ala Val Phe
   35                               40                               45

```

<210> 863
 <211> 120
 <212> Amino acid
 <213> Homo sapiens

```

<400> 863
Leu Glu Val Pro Ser Glu Val Thr Pro Leu Gly Phe Ala Met Gln Ala
  1                               5                               10                               15
Thr Lys Thr Leu Leu Arg Thr Cys Cys Leu Gln Glu Phe Asn Ile
   20                               25                               30
Met Glu Lys Asn Lys Gly Trp Ala Leu Leu Gly Gly Lys Asp Gly His
   35                               40                               45

```

```

Leu Gln Gly Leu Phe Leu Leu Ala Asn Ala Leu Leu Glu Arg Asn Gln
  50          55          60
Leu Leu Ala Gln Lys Val Met Tyr Leu Leu Val Pro Leu Leu Asn Arg
  65          70          75          80
Gly Asn Asp Lys His Lys Leu Thr Ser Ala Gly Phe Phe Val Glu Leu
          85          90          95
Leu Arg Ser Pro Val Ala Lys Arg Leu Pro Ser Ile Tyr Ser Val Ala
          100          105          110
Arg Phe Lys Asp Trp Leu Gln Asp
          115          120

```

```

<210> 864
<211> 124
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(124)
<223> X = any amino acid or stop code

```

```

<400> 864
Arg Pro Ala Pro Ala Pro Ser Ala Ala Pro Glu Glu Ala Pro Ser Pro
  1          5          10          15
Gly Val Lys Gly Arg Gly Met Ala Lys Arg Arg Val Pro Ala Pro Val
          20          25          30
Trp Gly Gly Ala Gly Gly Gly Thr Lys Ser Ala Arg Arg Ala Ala Ala
          35          40          45
Ala Pro Asp Thr Glu Arg Ser Glu Glu Gly Gly Arg Ala Val Lys Glu
          50          55          60
Ala Tyr Pro Ser Ser Arg Gln Pro Pro Pro Pro Ser Pro Xaa Pro Leu
          65          70          75          80
Arg Cys Ala Arg Arg Cys His Pro Asn Leu Ala Pro Ser Met Pro Ile
          85          90          95
Ser Asn Arg Glu Gly Lys Gly Lys Arg Arg Glu Glu Lys Ile Arg Pro
          100          105          110
Leu Ser Pro Ala Ser Thr His Thr Ser Ala Arg Ala
          115          120          124

```

```

<210> 865
<211> 120
<212>Amino acid
<213> Homo sapiens

```

```

<400> 865
Leu Gln Gly Val His Gly Ser Ser Ser Thr Phe Cys Ser Ser Leu Ser
  1          5          10          15
Ser Asp Phe Asp Pro Leu Glu Tyr Cys Ser Pro Lys Gly Asp Pro Gln
          20          25          30
Arg Val Asp Met Gln Pro Ser Val Thr Ser Arg Pro Arg Ser Leu Asp
          35          40          45
Ser Glu Val Pro Thr Gly Glu Thr Gln Val Ser Ser His Val His Tyr
          50          55          60
His Arg His Arg His His His Tyr Lys Lys Arg Phe Gln Arg His Gly

```

```

65          70          75          80
Arg Lys Pro Gly Pro Glu Thr Gly Val Pro Gln Ser Arg Pro Pro Ile
          85          90          95
Pro Arg Thr Gln Pro Gln Pro Glu Pro Pro Ser Pro Asp Gln Gln Val
          100          105          110
Thr Arg Ser Asn Ser Ala Ala Pro
          115          120

```

<210> 866
 <211> 82
 <212> Amino acid
 <213> Homo sapiens

```

<400> 866
Met Ala Asp Pro Asp Pro Arg Tyr Pro Arg Ser Ser Ile Glu Asp Asp
 1          5          10          15
Phe Asn Tyr Gly Ser Ser Glu Ala Ser Asp Thr Val His Ile Arg Met
          20          25          30
Ala Phe Leu Arg Arg Val Tyr Ser Ile Leu Ser Leu Gln Asp Leu Leu
          35          40          45
Ala Thr Val Thr Ser Thr Asp Asn Leu Ala Phe Glu Asp Gly Arg Thr
          50          55          60
Asp Trp Leu Gln Arg Pro Asp Cys Val Ser Phe Lys Ile His Val Leu
          65          70          75          80
Pro Met
          82

```

<210> 867
 <211> 60
 <212> Amino acid
 <213> Homo sapiens

```

<400> 867
Ala Gly Met Ser Val Val Val Val Pro Pro Ile Gly Ser Ser Tyr Leu
 1          5          10          15
Gly Leu Ile Ser Gln Glu His Phe Pro Asn Glu Phe Thr Ser Gly Asp
          20          25          30
Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe Tyr Gly Ser Ser Tyr
          35          40          45
Val Ala Ala Ser Asp Ser Ser Arg Thr Pro Gly Leu
          50          55          60

```

<210> 868
 <211> 78
 <212> Amino acid
 <213> Homo sapiens

```

<400> 868
Val Ala Ala Ala Leu Thr Leu Phe Pro Gln Gln Leu Ser Pro Pro Gly

```

```

      1           5           10           15
Ala Trp Gly Leu Gly Leu Ser Ala Cys Phe Cys Cys Ala Glu Gly Phe
      20           25           30
Ser Arg Leu Asn Gln Gln Val Leu Ser Ser Ser Leu Leu Leu Ser
      35           40           45
Arg Thr Asn Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn Leu Lys Lys
      50           55           60
Leu Thr Pro Arg Arg Asp Val Pro Thr Tyr Pro Lys Val Arg
      65           70           75           78

```

<210> 869
 <211> 119
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 869
Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile
      1           5           10           15
Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr
      20           25           30
Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu
      35           40           45
Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln
      50           55           60
Ser Gly Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met
      65           70           75           80
Met Leu Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg
      85           90           95
Leu Ile His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro
      100          105          110
Glu Asp Gln Arg Val Leu Thr
      115          119

```

<210> 870
 <211> 34
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 870
Leu Glu Ile Lys Phe Leu Glu Gln Val Asp Gln Phe Tyr Asp Asp Asn
      1           5           10           15
Phe Pro Met Glu Ile Arg His Leu Leu Ala Gln Trp Ile Glu Asn Gln
      20           25           30
Asp Trp
      34

```

<210> 871
 <211> 154
 <212>Amino acid
 <213> Homo sapiens

<400> 871

Glu Ala Gly Asp Ala Asp Glu Asp Glu Ala Asp Ala Asn Ser Ser Asp
 1 5 10 15
 Cys Glu Pro Glu Gly Pro Val Glu Ala Glu Glu Pro Pro Gln Glu Asp
 20 25 30
 Ser Ser Ser Gln Ser Asp Ser Val Glu Asp Arg Ser Glu Asp Glu Glu
 35 40 45
 Asp Glu His Ser Glu Glu Glu Thr Ser Gly Ser Ser Ala Ser Glu
 50 55 60
 Glu Ser Glu Ser Glu Glu Ser Glu Asp Ala Gln Ser Gln Ser Gln Ala
 65 70 75 80
 Asp Glu Glu Glu Glu Asp Asp Asp Phe Gly Val Glu Tyr Leu Leu Ala
 85 90 95
 Arg Asp Glu Glu Gln Ser Glu Ala Asp Ala Gly Ser Gly Pro Pro Thr
 100 105 110
 Pro Gly Pro Thr Thr Leu Gly Pro Lys Lys Glu Ile Thr Asp Ile Ala
 115 120 125
 Ala Ala Ala Glu Ser Leu Gln Pro Lys Gly Tyr Thr Leu Ala Thr Thr
 130 135 140
 Gln Val Lys Thr Pro Ile Pro Leu Leu Leu
 145 150 154

<210> 872

<211> 118

<212>Amino acid

<213> Homo sapiens

<400> 872

Leu Lys Asn Leu Arg Glu Leu Leu Leu Glu Asp Asn Gln Leu Pro Gln
 1 5 10 15
 Ile Pro Ser Gly Leu Pro Glu Ser Leu Thr Glu Leu Ser Leu Ile Gln
 20 25 30
 Thr Asn Ile Tyr Asn Ile Thr Lys Glu Gly Ile Ser Arg Leu Ile Asn
 35 40 45
 Leu Lys Asn Leu Tyr Leu Ala Trp Asn Cys Tyr Phe Asn Lys Val Cys
 50 55 60
 Glu Lys Thr Asn Ile Glu Asp Gly Val Phe Glu Thr Leu Thr Asn Leu
 65 70 75 80
 Glu Leu Leu Ser Leu Ser Phe Asn Ser Leu Ser His Val Pro Pro Lys
 85 90 95
 Leu Pro Ser Ser Leu Arg Lys Leu Phe Leu Ser Asn Thr Gln Ile Lys
 100 105 110
 Tyr Ile Ser Glu Glu Asp
 115 118

<210> 873

<211> 42

<212>Amino acid

<213> Homo sapiens

<400> 873

Met Arg Ser Gln Ala Leu Gly Gln Ser Ala Pro Ser Leu Thr Ala Ser

```

      1           5           10           15
Leu Lys Glu Leu Ser Leu Pro Arg Arg Gly Ser Phe Pro Val Cys Pro
      20           25           30
Asn Ala Gly Arg Thr Ser Pro Leu Gly *
      35           40 41

```

<210> 874
 <211> 70
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 874
Leu Leu Cys Val Cys Leu Pro Val Gly Ala Cys Pro Ser Leu Ser Leu
      1           5           10           15
Leu Thr Ala Pro Leu Asn Gln Leu Met Arg Cys Leu Arg Lys Tyr Gln
      20           25           30
Ser Arg Thr Pro Ser Pro Leu Leu His Ser Val Pro Ser Glu Ile Val
      35           40           45
Phe Asp Phe Glu Pro Gly Pro Val Phe Arg Gly Ser Trp Ala Leu Leu
      50           55           60
Ser Trp Ser Thr Arg Pro
      65           70

```

<210> 875
 <211> 41
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 875
Gln Thr Pro Asp Lys Lys Gln Asn Asp Gln Arg Asn Arg Lys Arg Lys
      1           5           10           15
Ala Glu Pro Tyr Glu Thr Ser Gln Gly Ser Asn Asn Phe Val Ser Thr
      20           25           30
Lys Val Leu Asn Ser Asn Val Leu Arg
      35           40 41

```

<210> 876
 <211> 139
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 876
Tyr Phe Ile Ile Lys Gly Met Val Glu Leu Val Pro Ala Ser Asp Thr
      1           5           10           15
Leu Arg Lys Ile Gln Val Glu Tyr Gly Val Thr Gly Ser Phe Lys Asp
      20           25           30
Lys Pro Leu Ala Glu Trp Leu Arg Lys Tyr Asn Pro Ser Glu Glu Glu
      35           40           45
Tyr Glu Lys Ala Ser Glu Asn Phe Ile Tyr Ser Cys Ala Gly Cys Cys

```

```

      50              55              60
Val Ala Thr Tyr Val Leu Gly Ile Cys Asp Arg His Asn Asp Asn Ile
 65              70              75              80
Met Leu Arg Ser Thr Gly His Met Phe His Ile Asp Phe Gly Lys Phe
      85              90              95
Leu Gly His Ala Gln Met Phe Gly Ser Phe Lys Arg Asp Arg Ala Pro
      100              105              110
Phe Val Leu Thr Ser Asp Met Ala Tyr Val Ile Asn Gly Gly Glu Lys
      115              120              125
Pro Thr Ile Arg Phe Gln Leu Phe Val Asp Leu
      130              135              139

```

<210> 877

<211> 350

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(350)

<223> X = any amino acid or stop code

<400> 877

```

Pro Ser Pro Leu Pro Ser Leu Ser Leu Pro Pro Pro Val Ala Pro Gly
 1              5              10              15
Gly Gln Glu Ser Pro Ser Pro His Thr Ala Glu Val Glu Ser Glu Ala
      20              25              30
Ser Pro Pro Pro Ala Arg Pro Leu Pro Gly Glu Ala Arg Leu Ala Pro
      35              40              45
Ile Ser Glu Glu Gly Lys Pro Gln Leu Val Gly Arg Phe Gln Val Thr
      50              55              60
Ser Ser Lys Asn Arg Leu Ser Leu Phe Pro Cys Ser Gln His Pro Pro
      65              70              75              80
Leu Ser Leu Val Leu Gln Asn Leu Gln Pro Leu Ser Ser Leu Gln Arg
      85              90              95
Ala Gln Ile Gln Arg Thr Val Pro Gly Gly Gly Pro Glu Thr Arg Glu
      100              105              110
Ala Leu Ala Glu Ser Asp Arg Ala Ala Glu Gly Leu Gly Ala Gly Val
      115              120              125
Glu Glu Glu Gly Asp Asp Gly Lys Glu Pro Gln Val Gly Gly Ser Pro
      130              135              140
Gln Pro Leu Ser His Pro Ser Pro Val Trp Met Asn Tyr Ser Tyr Ser
      145              150              155              160
Ser Leu Cys Leu Ser Ser Glu Glu Ser Glu Ser Ser Gly Glu Asp Glu
      165              170              175
Glu Phe Trp Ala Glu Leu Gln Ser Leu Arg Gln Lys His Leu Ser Glu
      180              185              190
Val Glu Thr Leu Gln Thr Leu Gln Lys Lys Glu Ile Glu Asp Leu Tyr
      195              200              205
Ser Arg Leu Gly Lys Gln Pro Pro Gly Ile Val Ala Pro Ala Ala
      210              215              220
Met Leu Ser Ser Arg Gln Arg Arg Leu Ser Lys Gly Ser Phe Pro Thr
      225              230              235              240
Ser Arg Arg Asn Ser Leu Gln Arg Ser Glu Pro Pro Gly Pro Gly Glu
      245              250              255
Thr Ala Gly His Pro Ala Ser Ile Phe Ser Leu Arg Pro Leu Ser Val
      260              265              270
Asp Cys Phe Ser Pro Gly Pro Gly Leu Pro Arg Gly Asn Arg Pro
      275              280              285

```



```

Pro Leu Pro Thr Ser Pro Phe Leu Thr Xaa Cys Ser Pro Ser Pro His
 290          295          300
Thr Ala Glu Val Glu Ser Glu Ala Ser Pro Pro Pro Ala Arg Pro Leu
305          310          315          320
Pro Gly Glu Ala Arg Leu Ala Pro Ile Ser Glu Glu Gly Lys Pro Gln
          325          330          335
Leu Val Gly Arg Phe Pro Ser Asp Phe Ile Gln Gly Thr Gly
          340          345          350

```

<210> 878
 <211> 112
 <212>Amino acid
 <213> Homo sapiens

```

<400> 878
Arg Arg Phe Val Ser Gln Glu Thr Gly Asn Leu Tyr Ile Ala Lys Val
 1          5          10          15
Glu Lys Ser Asp Val Gly Asn Tyr Thr Cys Val Val Thr Asn Thr Val
          20          25          30
Thr Asn His Lys Val Leu Gly Pro Pro Thr Pro Leu Ile Leu Arg Asn
          35          40          45
Asp Gly Val Met Gly Glu Tyr Glu Pro Lys Ile Glu Val Gln Phe Pro
          50          55          60
Glu Thr Val Pro Thr Ala Lys Gly Ala Thr Val Lys Leu Glu Cys Phe
          65          70          75          80
Ala Leu Gly Asn Pro Val Pro Thr Ile Ile Trp Arg Arg Ala Asp Gly
          85          90          95
Lys Pro Ile Ala Arg Lys Ala Arg Arg His Lys Ser Arg Val Gly Lys
          100          105          110          112

```

<210> 879
 <211> 282
 <212>Amino acid
 <213> Homo sapiens

```

<400> 879
Met Leu Arg Thr Cys Tyr Val Leu Cys Ser Gln Ala Gly Pro Arg Ser
 1          5          10          15
Arg Gly Trp Gln Ser Leu Ser Phe Asp Gly Gly Ala Phe His Leu Lys
          20          25          30
Gly Thr Gly Glu Leu Thr Arg Ala Leu Leu Val Leu Arg Leu Cys Ala
          35          40          45
Trp Pro Pro Leu Val Thr His Gly Leu Leu Leu Gln Ala Trp Ser Arg
          50          55          60
Arg Leu Leu Gly Ser Arg Leu Ser Gly Ala Phe Leu Arg Ala Ser Val
          65          70          75          80
Tyr Gly Gln Phe Val Ala Gly Glu Thr Ala Glu Glu Val Lys Gly Cys
          85          90          95
Val Gln Gln Leu Arg Thr Leu Ser Leu Arg Pro Leu Leu Ala Val Pro
          100          105          110
Thr Glu Glu Glu Pro Asp Ser Ala Lys Ser Gly Glu Ala Trp Tyr
          115          120          125

```

Glu Gly Asn Leu Gly Ala Met Leu Arg Cys Val Asp Leu Ser Arg Gly
 130 135 140
 Leu Leu Glu Pro Pro Ser Leu Ala Glu Ala Ser Leu Met Gln Leu Lys
 145 150 155 160
 Val Thr Ala Leu Thr Ser Thr Arg Leu Cys Lys Glu Leu Ala Ser Trp
 165 170 175
 Val Arg Arg Pro Gly Ala Ser Leu Glu Leu Ser Pro Glu Arg Leu Ala
 180 185 190
 Glu Ala Met Asp Ser Gly Gln Asn Leu Gln Val Ser Cys Leu Asn Ala
 195 200 205
 Glu Gln Asn Gln His Leu Arg Ala Ser Leu Ser Arg Leu His Arg Val
 210 215 220
 Ala Gln Tyr Ala Arg Ala Gln His Val Arg Leu Leu Val Asp Ala Glu
 225 230 235 240
 Tyr Thr Ser Leu Asn Pro Ala Leu Ser Leu Leu Val Ala Ala Leu Ala
 245 250 255
 Val Arg Trp Asn Ser Pro Gly Glu Gly Gly Pro Trp Val Trp Asn Thr
 260 265 270
 Tyr Gln Ala Cys Leu Lys Asp Thr Phe *
 275 280 281

<210> 880
 <211> 29
 <212> Amino acid
 <213> Homo sapiens

<400> 880
 Pro His His Arg Ile Ala Gly Asp Thr Ala Ile Asp Lys Asn Ile His
 1 5 10 15
 Gln Ser Val Ser Glu Gln Ile Lys Lys Asn Phe Ala Lys
 20 25 29

<210> 881
 <211> 45
 <212> Amino acid
 <213> Homo sapiens

<400> 881
 Gln Met Thr Asn Pro Phe Phe Leu Cys Phe Thr Thr Met Ile Ser Asn
 1 5 10 15
 Cys Asn Phe Phe Lys Gly Pro Pro Gly Pro Pro Gly Glu Lys Gly Asp
 20 25 30
 Arg Gly Pro Thr Gly Glu Ser Gly Pro Arg Gly Phe Pro
 35 40 45

<210> 882
 <211> 54
 <212> Amino acid
 <213> Homo sapiens

<400> 882

Asn Gly Ile Ile Ala Ser Phe Phe Leu Arg Thr Phe Ile Phe Cys Phe
 1 5 10 15
 Ile His Ile Gln Gly Cys Gln Ala Gly Gln Thr Ile Lys Val Gln Val
 20 25 30
 Ser Phe Asp Leu Leu Ser Leu Met Phe Thr Phe Val Ser Pro Cys Thr
 35 40 45
 Asn Asp Leu Ile Ile His
 50 54

<210> 883

<211> 479

<212>Amino acid

<213> Homo sapiens

<400> 883

Lys Leu Ser Val Asn His Arg Arg Thr His Leu Thr Lys Leu Met His
 1 5 10 15
 Thr Val Glu Gln Ala Thr Leu Arg Ile Ser Gln Ser Phe Gln Lys Thr
 20 25 30
 Thr Glu Phe Asp Thr Asn Ser Thr Asp Ile Ala Leu Lys Val Phe Phe
 35 40 45
 Phe Asp Ser Tyr Asn Met Lys His Ile His Pro His Met Asn Met Asp
 50 55 60
 Gly Asp Tyr Ile Asn Ile Phe Pro Lys Arg Lys Ala Ala Tyr Asp Ser
 65 70 75 80
 Asn Gly Asn Val Ala Val Ala Phe Leu Tyr Tyr Lys Ser Ile Gly Pro
 85 90 95
 Leu Leu Ser Ser Ser Asp Asn Phe Leu Leu Lys Pro Gln Asn Tyr Asp
 100 105 110
 Asn Ser Glu Glu Glu Glu Arg Val Ile Ser Ser Val Ile Ser Val Ser
 115 120 125
 Met Ser Ser Asn Pro Pro Thr Leu Tyr Glu Leu Glu Lys Ile Thr Phe
 130 135 140
 Thr Leu Ser His Arg Lys Val Thr Asp Arg Tyr Arg Ser Leu Cys Ala
 145 150 155 160
 Phe Trp Asn Tyr Ser Pro Asp Thr Met Asn Gly Ser Trp Ser Ser Glu
 165 170 175
 Gly Cys Glu Leu Thr Tyr Ser Asn Glu Thr His Thr Ser Cys Arg Cys
 180 185 190
 Asn His Leu Thr His Phe Ala Ile Leu Met Ser Ser Gly Pro Ser Ile
 195 200 205
 Gly Ile Lys Asp Tyr Asn Ile Leu Thr Arg Ile Thr Gln Leu Gly Ile
 210 215 220
 Ile Ile Ser Leu Ile Cys Leu Ala Ile Cys Ile Phe Thr Phe Trp Phe
 225 230 235 240
 Phe Ser Glu Ile Gln Ser Thr Arg Thr Thr Ile His Lys Asn Leu Cys
 245 250 255
 Cys Ser Leu Phe Leu Ala Glu Leu Val Phe Leu Val Gly Ile Asn Thr
 260 265 270
 Asn Thr Asn Lys Leu Phe Cys Ser Ile Ile Ala Gly Leu Leu His Tyr
 275 280 285
 Phe Phe Leu Ala Ala Phe Ala Trp Met Cys Ile Glu Gly Ile His Leu
 290 295 300
 Tyr Leu Ile Val Val Gly Val Ile Tyr Asn Lys Gly Phe Leu His Lys
 305 310 315 320
 Asn Phe Tyr Ile Phe Gly Tyr Leu Ser Pro Ala Val Val Val Gly Phe
 325 330 335

Ser Ala Ala Leu Gly Tyr Arg Tyr Tyr Gly Thr Thr Lys Val Cys Trp
 340 345 350
 Leu Ser Thr Glu Asn Asn Phe Ile Trp Ser Phe Ile Gly Pro Ala Cys
 355 360 365
 Leu Ile Ile Leu Val Asn Leu Leu Ala Phe Gly Val Ile Ile Tyr Lys
 370 375 380
 Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser Cys Phe Glu
 385 390 395 400
 Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu Phe Leu Leu
 405 410 415
 Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val
 420 425 430
 Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe
 435 440 445
 Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
 450 455 460
 Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
 465 470 475 479

<210> 884
 <211> 143
 <212>Amino acid
 <213> Homo sapiens

<400> 884
 Gly Thr Arg Glu Ala Ala Pro Ser Arg Phe Met Phe Leu Leu Phe Leu
 1 5 10 15
 Leu Thr Cys Glu Leu Ala Ala Glu Val Ala Ala Glu Val Glu Lys Ser
 20 25 30
 Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro Thr Trp Leu Thr Asp Val
 35 40 45
 Pro Ala Ala Met Glu Phe Ile Ala Ala Thr Glu Val Ala Val Ile Gly
 50 55 60
 Phe Phe Gln Asp Leu Glu Ile Pro Ala Val Pro Ile Leu His Ser Met
 65 70 75 80
 Val Gln Lys Phe Pro Gly Val Ser Phe Gly Ile Ser Thr Asp Ser Glu
 85 90 95
 Val Leu Thr His Tyr Asn Ile Thr Gly Asn Thr Ile Cys Leu Phe Arg
 100 105 110
 Leu Val Asp Asn Glu Gln Leu Asn Leu Glu Asp Glu Asp Ile Glu Ser
 115 120 125
 Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile Glu Ile Asn Ser Leu
 130 135 140 143

<210> 885
 <211> 52
 <212>Amino acid
 <213> Homo sapiens

<400> 885
 Asp Glu Thr Ser Gly Leu Ile Val Arg Glu Val Ser Ile Glu Ile Ser
 1 5 10 15
 Arg Gln Gln Val Glu Glu Leu Phe Gly Pro Glu Asp Tyr Trp Cys Gln
 20 25 30

Cys Val Ala Trp Ser Ser Ala Gly Thr Thr Lys Ser Arg Lys Ala Tyr
 35 40 45
 Val Arg Ile Ala
 50 52

<210> 886
 <211> 40
 <212> Amino acid
 <213> Homo sapiens

<400> 886
 Gly Thr Arg Ser Ile His Val Lys Leu Asp Val Gly Lys Leu His Thr
 1 5 10 15
 Gln Pro Lys Leu Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly
 20 25 30
 Lys Val Glu Gly Leu Pro Gly Ile
 35 40

<210> 887
 <211> 177
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(177)
 <223> X = any amino acid or stop code

<400> 887
 Xaa Cys Gly Glu Asp Gly Ser Phe Thr Gln Val Gln Cys His Thr Tyr
 1 5 10 15
 Thr Gly Tyr Cys Trp Cys Val Thr Pro Asp Gly Lys Pro Ile Ser Gly
 20 25 30
 Ser Ser Val Gln Asn Lys Thr Pro Val Cys Ser Gly Ser Val Thr Asp
 35 40 45
 Lys Pro Leu Ser Gln Gly Asn Ser Gly Arg Lys Asp Asp Gly Ser Lys
 50 55 60
 Pro Thr Pro Thr Met Glu Thr Gln Pro Val Phe Asp Gly Asp Glu Ile
 65 70 75 80
 Thr Ala Pro Thr Leu Trp Ile Lys His Leu Val Ile Lys Asp Ser Lys
 85 90 95
 Leu Asn Asn Thr Asn Ile Arg Asn Ser Glu Lys Val Tyr Ser Cys Asp
 100 105 110
 Gln Glu Arg Gln Ser Ala Leu Glu Glu Ala Gln Gln Asn Pro Arg Glu
 115 120 125
 Gly Ile Val Ile Pro Glu Cys Ala Pro Gly Gly Leu Tyr Lys Pro Val
 130 135 140
 Gln Cys His Gln Ser Thr Gly Tyr Cys Trp Cys Val Leu Val Asp Thr
 145 150 155 160
 Gly Arg Pro Leu Pro Gly Thr Ser Thr Arg Tyr Val Met Pro Ser Xaa
 165 170 175 176

*

<210> 888
 <211> 48
 <212>Amino acid
 <213> Homo sapiens

<400> 888
 Val Leu Gln Leu Ile Lys Ser Gln Lys Phe Leu Asn Lys Leu Val Ile
 1 5 10 15
 Leu Val Glu Thr Glu Lys Glu Lys Ile Leu Arg Lys Glu Tyr Val Phe
 20 25 30
 Ala Asp Ser Lys Val Ser Asp Ser Lys Leu Leu Lys Trp Ala Val Arg
 35 40 45 48

<210> 889
 <211> 316
 <212>Amino acid
 <213> Homo sapiens

<400> 889
 Arg Arg Leu Ser Leu Leu Asp Leu Gln Leu Gly Pro Leu Gly Arg Asp
 1 5 10 15
 Pro Pro Gln Glu Cys Ser Thr Phe Ser Pro Thr Asp Ser Gly Glu Glu
 20 25 30
 Pro Gly Gln Leu Ser Pro Gly Val Gln Phe Gln Arg Arg Gln Asn Gln
 35 40 45
 Arg Arg Phe Ser Met Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met
 50 55 60
 Asp Ile Arg Leu Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser
 65 70 75 80
 Pro Asp Leu Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu
 85 90 95
 Ser Asp Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys
 100 105 110
 Leu Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
 115 120 125
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu Glu
 130 135 140
 Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys Asn Leu
 145 150 155 160
 Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His Thr Asp Arg
 165 170 175
 Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp Leu Lys Gln Tyr
 180 185 190
 Leu Asp His Cys Gly Asn Leu Met Ser Met His Asn Val Lys Val Arg
 195 200 205
 Pro Arg Gly Gln Gly Pro Pro Ile Leu Ala Ala Thr Cys Pro Glu Ala
 210 215 220
 Gln Cys Gly Asp Pro Leu Ser Pro Pro Gly Ile Arg Leu Leu Arg Trp
 225 230 235 240
 Leu Lys Pro Ser His Val Gly Lys Arg Glu Arg Ala Met Pro Ser Thr
 245 250 255
 Ser Pro Gly Thr Gly Leu Ser Ala Leu Pro Gln Glu Gln Thr His Thr

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                260                265                270
Val Cys His Cys Leu Ala Val Gly Ile Lys Pro Thr Leu Asn Ser Glu
                275                280                285
His Gln Phe Pro Ser Leu Ser Asn Gly Ser Val Ser Tyr Leu Pro Lys
                290                295                300
Cys Arg Glu Ala Ser Gly Glu Ala Arg Gly Tyr Glu
305                310                315 316

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<210> 890
 <211> 34
 <212>Amino acid
 <213> Homo sapiens

```

<400> 890
His Glu Arg His Glu Pro Ser Pro Thr Ala Leu Ala Phe Gly Asp His
 1                5                10                15
Pro Ile Val Gln Pro Lys Gln Leu Ser Phe Lys Ile Ile Gln Val Asn
                20                25                30
Asp Asn
34

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<210> 891
 <211> 68
 <212>Amino acid
 <213> Homo sapiens

```

<400> 891
Ala Arg Gly Pro Ser Leu Leu Ser Glu Phe His Pro Gly Ser Asp Arg
 1                5                10                15
Pro Gln Glu Arg Thr Ser Tyr Glu Pro Ile His Pro Gly Pro Ser
                20                25                30
Pro Val Asp His Asp Ser Leu Glu Ser Lys Arg Pro Arg Leu Glu Gln
                35                40                45
Ala Ser Asp Ser His Tyr Gln Gly His Ile Thr Gly Glu Ser Leu Pro
                50                55                60
Gly Arg Val His
65                68

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<210> 892
 <211> 38
 <212>Amino acid
 <213> Homo sapiens

```

<400> 892
Gly Thr Arg Lys Glu Glu Phe Ser Ala Glu Glu Asn Phe Leu Ile Leu
 1                5                10                15
Thr Glu Met Ala Thr Asn His Val Gln Val Leu Val Glu Phe Thr Lys
                20                25                30
Lys Leu Pro Gly Ile Phe

```

35

38

<210> 893
 <211> 195
 <212>Amino acid
 <213> Homo sapiens

<400> 893
 His Thr His Lys Leu Val Ala Pro Arg Pro Gly Leu Pro Pro Thr Ser
 1 5 10 15
 Gln Trp Pro Arg Asp Ala Gly Arg Gln Ala Ser Gly Gly Leu Pro Ser
 20 25 30
 Leu Ser Thr Gly Pro Pro Lys Gly Pro Arg Asp Gly Leu Ala Arg Gly
 35 40 45
 His Pro Ala Glu Trp Leu Ala Gly Ser Pro Gly Asn Asn Ser Pro Thr
 50 55 60
 Gln Gly Ser Leu Pro Pro Gln Leu Asp Leu Tyr Ala Gly Ala Leu Phe
 65 70 75 80
 Val His Ile Cys Leu Gly Trp Asn Phe Tyr Leu Ser Thr Ile Leu Thr
 85 90 95
 Leu Gly Ile Thr Ala Leu Tyr Thr Ile Ala Gly Met Val Pro Ala Ala
 100 105 110
 Gly Arg Ser Thr Gln Gly Thr Cys Lys Gly Val Arg Arg Pro Pro Pro
 115 120 125
 Pro Thr Gly Pro Arg Glu Gln Pro Arg Lys Trp Pro Gln Gln Glu Pro
 130 135 140
 Gln Lys Phe Leu Pro Val Ser Leu Leu Pro Gly Ala Arg Ala Pro Ser
 145 150 155 160
 Ser Asn Leu Ala Ser Thr Gly Arg Gly Pro Gly Cys Cys Asn Leu His
 165 170 175
 Gly Arg Pro Ala Asp Ala His His Gly Gly Gly Gly Cys His Pro Asp
 180 185 190
 Asn Gln Arg
 195

<210> 894
 <211> 87
 <212>Amino acid
 <213> Homo sapiens

<400> 894
 Met Val Asn His Ser Leu Gln Glu Thr Ser Glu Gln Asn Val Ile Leu
 1 5 10 15
 Gln His Thr Leu Gln Gln Gln Gln Met Leu Gln Gln Glu Thr Ile
 20 25 30
 Arg Asn Gly Glu Leu Glu Asp Thr Gln Thr Lys Leu Glu Lys Gln Val
 35 40 45
 Ser Lys Leu Glu Gln Glu Leu Gln Lys Gln Arg Glu Ser Ser Ala Glu
 50 55 60
 Lys Leu Arg Lys Met Glu Glu Lys Cys Glu Ser Ala Ala His Glu Ala
 65 70 75 80
 Asp Leu Lys Arg Gln Lys *
 85 86

<210> 895
 <211> 49
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(49)
 <223> X = any amino acid or stop code

<400> 895
 Val Cys Pro Lys Trp Cys Arg Phe Leu Thr Met Leu Gly His Cys Cys
 1 5 10 15
 Tyr Phe Trp His Val Trp Pro Ala Ser Xaa Ala Leu Ser Ala Gly Pro
 20 25 30
 Thr Pro Thr Ser Arg Ser Phe Ser Pro Ser Pro Leu Arg Ser Ile Ser
 35 40 45
 Thr
 49

<210> 896
 <211> 128
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(128)
 <223> X = any amino acid or stop code

<400> 896
 Met Arg Gly Pro Pro Val Leu Leu Leu Gln Ala Ala Pro Met Glu Cys
 1 5 10 15
 Pro Val Pro Gln Gly Ile Pro Ala Gly Ser Ser Pro Glu Pro Ala Pro
 20 25 30
 Asp Pro Pro Gly Pro His Phe Leu Arg Gln Glu Arg Ser Phe Glu Cys
 35 40 45
 Arg Met Cys Gly Lys Ala Phe Lys Arg Ser Ser Thr Leu Ser Thr His
 50 55 60
 Leu Leu Ile His Ser Asp Thr Arg Pro Tyr Pro Cys Gln Phe Cys Gly
 65 70 75 80
 Lys Arg Phe His Gln Lys Ser Asp Met Lys Lys His Thr Tyr Ile His
 85 90 95
 Thr Gly Glu Lys Pro His Lys Cys Gln Thr Gln Arg Glu Pro Thr Met
 100 105 110
 Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Xaa *
 115 120 125 127

<210> 897
 <211> 57
 <212> Amino acid
 <213> Homo sapiens

<400> 897

```

His Glu Gln Leu Thr Asn Asn Thr Ala Thr Ala Pro Ser Ala Thr Pro
 1           5           10           15
Val Phe Gly Gln Val Ala Ala Ser Thr Ala Pro Ser Leu Phe Gly Gln
           20           25           30
Gln Thr Gly Ile Thr Ala Ser Thr Ala Val Ala Thr Pro Gln Val Ile
           35           40           45
Ser Ser Arg Phe Ile Asn Leu Asp Phe
 50           55           57

```

<210> 898

<211> 163

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(163)

<223> X = any amino acid or stop code

<400> 898

```

Val Ser Val Phe Lys Asn Cys Pro Met Tyr Xaa Ile Cys Ile Phe Leu
 1           5           10           15
Thr Lys Met Phe Cys Val Leu Ile Ile Xaa Asn Lys Phe Xaa Val His
           20           25           30
Lys Lys Pro Leu Gln Glu Val Glu Ile Ala Ala Ile Thr His Gly Ala
           35           40           45
Leu Gln Gly Leu Ala Tyr Leu His Ser His Thr Met Ile His Arg Asp
           50           55           60
Ile Lys Ala Gly Asn Ile Leu Leu Thr Glu Pro Gly Gln Val Lys Leu
           65           70           75           80
Ala Asp Phe Gly Ser Ala Ser Met Ala Ser Pro Ala Asn Ser Phe Val
           85           90           95
Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu
           100          105          110
Gly Gln Tyr Asp Gly Lys Val Asp Val Trp Ser Leu Gly Ile Thr Cys
           115          120          125
Ile Glu Leu Ala Glu Arg Lys Pro Pro Leu Phe Asn Met Asn Ala Met
           130          135          140
Ser Ala Leu Tyr His Ile Ala Gln Asn Glu Ser Pro Thr Leu Gln Ser
           145          150          155          160
Asn Glu Trp
           163

```

<210> 899

<211> 352

<212>Amino acid

<213> Homo sapiens

<400> 899

Arg His Ala Arg Pro Gly Gly Gly Gly His Ser Asn Gln Arg Lys Met
 1 5 10 15
 Ser Leu Glu Gln Glu Glu Thr Gln Pro Gly Arg Leu Leu Gly Arg
 20 25 30
 Arg Asp Ala Val Pro Ala Phe Ile Glu Pro Asn Val Arg Phe Trp Ile
 35 40 45
 Thr Glu Arg Gln Ser Phe Ile Arg Arg Phe Leu Gln Trp Thr Glu Leu
 50 55 60
 Leu Asp Pro Thr Asn Val Phe Ile Ser Val Glu Ser Ile Glu Asn Ser
 65 70 75 80
 Arg Gln Leu Leu Cys Thr Asn Glu Asp Val Ser Ser Pro Ala Ser Ala
 85 90 95
 Asp Gln Arg Ile Gln Glu Ala Trp Lys Arg Ser Leu Ala Thr Val His
 100 105 110
 Pro Asp Ser Ser Asn Leu Ile Pro Lys Leu Phe Arg Pro Ala Ala Phe
 115 120 125
 Leu Pro Phe Met Ala Pro Thr Val Phe Leu Ser Met Thr Pro Leu Lys
 130 135 140
 Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met
 145 150 155 160
 Ala Ala Phe Asn Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro
 165 170 175
 Leu Glu Arg Ser Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe
 180 185 190
 Leu Gly Val Ile Pro Gln Phe Val Gln Met Lys Tyr Gly Leu Thr Gly
 195 200 205
 Pro Trp Ile Lys Arg Leu Leu Pro Val Ile Phe Leu Val Gln Ala Ser
 210 215 220
 Gly Met Asn Val Tyr Met Ser Arg Ser Leu Glu Ser Ile Lys Gly Ile
 225 230 235 240
 Ala Val Met Asp Lys Glu Gly Asn Val Leu Gly His Ser Arg Ile Ala
 245 250 255
 Gly Thr Lys Ala Val Arg Glu Thr Leu Ala Ser Arg Ile Val Leu Phe
 260 265 270
 Gly Thr Ser Ala Leu Ile Pro Glu Val Phe Thr Tyr Phe Phe Lys Arg
 275 280 285
 Thr Gln Tyr Phe Arg Lys Asn Pro Gly Ser Leu Trp Ile Leu Lys Leu
 290 295 300
 Ser Cys Thr Val Leu Ala Met Gly Leu Met Val Pro Phe Ser Phe Ser
 305 310 315 320
 Ile Phe Pro Gln Ile Gly Gln Ile Gln Tyr Cys Ser Leu Glu Glu Lys
 325 330 335
 Ile Gln Ser Pro Thr Glu Glu Thr Glu Ile Phe Tyr His Arg Gly Val
 340 345 350 352

<210> 900

<211> 186

<212> Amino acid

<213> Homo sapiens

<400> 900

His Ala Ser Gly Arg Leu Glu Val Phe Tyr Asn Gly Thr Trp Gly Ser
 1 5 10 15
 Val Gly Arg Arg Asn Ile Thr Thr Ala Ile Ala Gly Ile Val Cys Arg
 20 25 30
 Gln Leu Gly Cys Gly Glu Asn Gly Val Val Ser Leu Ala Pro Leu Ser
 35 40 45

Lys Thr Gly Ser Gly Phe Met Trp Val Asp Asp Ile Gln Cys Pro Lys
 50 55 60
 Thr His Ile Ser Ile Trp Gln Cys Leu Ser Ala Pro Trp Glu Arg Arg
 65 70 75 80
 Ile Ser Ser Pro Ala Glu Glu Thr Trp Ile Thr Cys Glu Asp Arg Ile
 85 90 95
 Arg Val Arg Gly Gly Asp Thr Glu Cys Ser Gly Arg Val Glu Ile Trp
 100 105 110
 His Ala Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Leu Ala
 115 120 125
 Glu Ala Glu Val Val Cys Gln Gln Leu Gly Cys Gly Ser Ala Leu Ala
 130 135 140
 Ala Leu Arg Asp Ala Ser Phe Gly Gln Gly Thr Gly Thr Ile Trp Leu
 145 150 155 160
 Asp Asp Met Arg Cys Lys Gly Asn Glu Ser Phe Leu Trp Asp Cys His
 165 170 175
 Ala Lys Pro Trp Gly Gln Ser Asp Cys Gly
 180 185 186

<210> 901
 <211> 365
 <212> Amino acid
 <213> Homo sapiens

<400> 901
 Leu Gly Asp Phe Pro Gln Pro Gln Arg Gln Arg Arg Pro Gly Ala Ser
 1 5 10 15
 Asp Leu Pro Pro His Leu Ala Gly Ala Arg Gln Trp Glu Val Arg Phe
 20 25 30
 Phe Arg His Leu Pro Ala Arg Thr Leu Pro Pro Ser Leu Arg Met Pro
 35 40 45
 Glu Gly Pro Glu Leu His Leu Ala Ser Gln Phe Val Asn Glu Ala Cys
 50 55 60
 Arg Ala Leu Val Phe Gly Gly Cys Val Glu Lys Ser Ser Val Ser Arg
 65 70 75 80
 Asn Pro Glu Val Pro Phe Glu Ser Ser Ala Tyr Arg Ile Ser Ala Ser
 85 90 95
 Ala Arg Gly Lys Glu Leu Arg Leu Ile Leu Ser Pro Leu Pro Gly Ala
 100 105 110
 Gln Pro Gln Gln Glu Pro Leu Ala Leu Val Phe Arg Phe Gly Met Ser
 115 120 125
 Gly Ser Phe Gln Leu Val Pro Arg Glu Glu Leu Pro Arg His Ala His
 130 135 140
 Leu Arg Phe Tyr Thr Ala Pro Pro Gly Pro Arg Leu Ala Leu Cys Phe
 145 150 155 160
 Val Asp Ile Arg Arg Phe Gly Arg Trp Asp Leu Gly Gly Lys Trp Gln
 165 170 175
 Pro Gly Arg Gly Pro Cys Val Leu Gln Glu Tyr Gln Gln Phe Arg Glu
 180 185 190
 Asn Val Leu Arg Asn Leu Ala Asp Lys Ala Phe Asp Arg Pro Ile Cys
 195 200 205
 Glu Ala Leu Leu Asp Gln Arg Phe Phe Asn Gly Ile Gly Asn Tyr Leu
 210 215 220
 Arg Ala Glu Ile Leu Tyr Arg Leu Lys Ile Pro Pro Phe Glu Lys Ala
 225 230 235 240
 Arg Ser Val Leu Glu Ala Leu Gln Gln His Arg Pro Ser Pro Glu Leu
 245 250 255
 Thr Leu Ser Gln Lys Ile Arg Thr Lys Leu Gln Asn Pro Asp Leu Leu
 260 265 270

Glu Leu Cys His Ser Val Pro Lys Glu Val Val Gln Leu Gly Gly Arg
 275 280 285
 Gly Tyr Gly Ser Glu Ser Gly Glu Glu Asp Phe Ala Ala Phe Arg Ala
 290 295 300
 Trp Leu Arg Cys Tyr Gly Met Pro Gly Met Ser Ser Leu Gln Asp Arg
 305 310 315 320
 His Gly Arg Thr Ile Trp Phe Gln Gly Asp Pro Gly Pro Leu Ala Pro
 325 330 335
 Lys Gly Arg Lys Ser Arg Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser
 340 345 350
 Pro Glu Asp Arg Val Glu Asp Ala Leu Pro Pro Ser Lys
 355 360 365

<210> 902
 <211> 110
 <212>Amino acid
 <213> Homo sapiens

<400> 902
 Leu Thr Trp Ser Ala Cys Tyr Trp Arg Asp Ile Leu Arg Ile Gln Leu
 1 5 10 15
 Trp Ile Ala Ala Asp Ile Leu Leu Arg Met Leu Glu Lys Ala Leu Leu
 20 25 30
 Tyr Ser Glu His Gln Asn Ile Ser Asn Thr Gly Leu Ser Ser Gln Gly
 35 40 45
 Leu Leu Ile Phe Ala Glu Leu Ile Pro Ala Ile Lys Arg Thr Leu Ala
 50 55 60
 Arg Leu Leu Val Ile Ile Ala Ser Leu Asp Tyr Gly Ile Glu Lys Pro
 65 70 75 80
 His Leu Gly Thr Gly Met His Arg Val Ile Gly Leu Met Leu Leu Tyr
 85 90 95
 Leu Ile Phe Ala Asn Ala Glu Ser Val Ile Arg Val Ile Gly
 100 105 110

<210> 903
 <211> 44
 <212>Amino acid
 <213> Homo sapiens

<400> 903
 Phe Phe Phe Glu Met Glu Ser Arg Ser Ala Ala Gln Ala Gly Val Gln
 1 5 10 15
 Trp Cys Asn Leu Gly Ser Leu Gln Ala Leu Pro Pro Arg Phe Thr Pro
 20 25 30
 Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr
 35 40 44

<210> 904
 <211> 190
 <212>Amino acid
 <213> Homo sapiens

<400> 904

```

Tyr Glu Cys Glu Glu Leu Ala Lys Lys Leu Glu Asn Ser Gln Arg Asp
 1          5          10          15
Gly Ile Ser Arg Asn Lys Leu Ala Leu Ala Glu Leu Tyr Glu Asp Glu
          20          25          30
Val Lys Cys Lys Ser Ser Lys Ser Asn Arg Pro Lys Ala Thr Val Phe
          35          40          45
Lys Ser Pro Arg Thr Pro Pro Gln Arg Phe Tyr Ser Ser Glu His Glu
          50          55          60
Tyr Ser Gly Leu Asn Ile Val Arg Pro Ser Thr Gly Lys Ile Val Asn
          65          70          75          80
Glu Leu Phe Lys Glu Ala Arg Glu His Gly Ala Val Pro Leu Asn Glu
          85          90          95
Ala Thr Arg Ala Ser Gly Asp Asp Lys Ser Lys Ser Phe Thr Gly Gly
          100          105          110
Gly Tyr Arg Leu Gly Ser Ser Phe Cys Lys Arg Ser Glu Tyr Ile Tyr
          115          120          125
Gly Glu Asn Gln Leu Gln Asp Val Gln Ile Leu Leu Lys Leu Trp Ser
          130          135          140
Asn Gly Phe Ser Leu Asp Asp Gly Glu Leu Arg Pro Tyr Asn Glu Pro
          145          150          155          160
Thr Asn Ala Gln Phe Leu Glu Ser Val Lys Arg Gly Val Thr Leu Ile
          165          170          175
Ala Cys Met Pro Glu Ile Gln Gln Leu Met Leu Glu Ile Phe
          180          185          190

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<210> 905

<211> 414

<212>Amino acid

<213> Homo sapiens

<400> 905

```

Trp Pro Cys Gly Ala Ala Pro Gly Leu Thr His Ala Ser Glu Arg Met
 1          5          10          15
Phe Thr Leu Thr Thr Met Ile Gln Ala Leu Ala Pro Val Met Gly Trp
          20          25          30
Asp Arg Lys Pro Leu Lys Met Phe Ser Ser Glu Glu Met Arg Gly His
          35          40          45
Leu His His His Lys Cys Leu Thr Lys Ile Leu Lys Val Glu Gly
          50          55          60
Gln Val Pro Asp Leu Pro Ser Cys Leu Pro Leu Thr Asp Asn Thr Arg
          65          70          75          80
Met Leu Ala Ser Ile Leu Ile Asn Met Leu Tyr Asp Asp Leu Arg Cys
          85          90          95
Asp Pro Glu Arg Asp His Phe Arg Lys Ile Cys Glu Glu Tyr Ile Thr
          100          105          110
Gly Lys Phe Asp Pro Gln Asp Met Asp Lys Asn Leu Asn Ala Ile Gln
          115          120          125
Thr Val Ser Gly Ile Leu Gln Gly Pro Phe Asp Leu Gly Asn Gln Leu
          130          135          140
Leu Gly Leu Lys Gly Val Met Glu Met Met Val Ala Leu Cys Gly Ser
          145          150          155          160
Glu Arg Glu Thr Asp Gln Leu Val Ala Val Glu Ala Leu Ile His Ala
          165          170          175
Ser Thr Lys Leu Ser Arg Ala Thr Phe Ile Ile Thr Asn Gly Val Ser
          180          185          190

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Leu Leu Lys Gln Ile Tyr Lys Thr Thr Lys Asn Glu Lys Ile Lys Ile
 195                200                205
Arg Thr Leu Val Gly Leu Cys Lys Leu Gly Ser Ala Gly Gly Thr Asp
 210                215                220
Tyr Gly Leu Arg Gln Phe Ala Glu Gly Ser Thr Glu Lys Leu Ala Lys
 225                230                235                240
Gln Cys Arg Lys Trp Leu Cys Asn Met Ser Ile Asp Thr Arg Thr Arg
                245                250                255
Arg Trp Ala Val Glu Gly Leu Ala Tyr Leu Thr Leu Asp Ala Asp Val
                260                265                270
Lys Asp Asp Phe Val Gln Asp Val Pro Ala Leu Gln Ala Met Phe Glu
 275                280                285
Leu Ala Lys Thr Ser Asp Lys Thr Ile Leu Tyr Ser Val Ala Thr Thr
 290                295                300
Leu Val Asn Cys Thr Asn Ser Tyr Asp Val Lys Glu Val Ile Pro Glu
 305                310                315                320
Leu Val Gln Leu Ala Lys Phe Ser Lys Gln His Val Pro Glu Glu His
                325                330                335
Pro Lys Asp Lys Lys Asp Phe Ile Asp Met Arg Val Lys Arg Leu Leu
 340                345                350
Lys Ala Gly Val Ile Ser Ala Leu Ala Cys Met Val Lys Ala Asp Ser
 355                360                365
Ala Ile Leu Thr Asp Gln Thr Lys Glu Leu Leu Ala Arg Val Phe Leu
 370                375                380
Ala Leu Cys Asp Asn Pro Lys Asp Arg Gly Thr Ile Val Ala Gln Gly
 385                390                395                400
Gly Gly Lys Ala Leu Ile Pro Leu Ala Leu Glu Gly Thr Asp
                405                410                414

```

<210> 906
 <211> 296
 <212> Amino acid
 <213> Homo sapiens

```

<400> 906
Val Asp Ser Val Gly Gly Gly Ser Glu Ser Arg Ser Leu Asp Ser Pro
 1                5                10                15
Thr Ser Ser Pro Gly Ala Gly Thr Arg Gln Leu Val Lys Ala Ser Ser
                20                25                30
Thr Gly Thr Glu Ser Ser Asp Asp Phe Glu Glu Arg Asp Pro Asp Leu
 35                40                45
Gly Asp Gly Leu Glu Asn Gly Leu Gly Ser Pro Phe Gly Lys Trp Thr
 50                55                60
Leu Ser Ser Ala Ala Gln Thr His Gln Leu Arg Arg Leu Arg Gly Pro
 65                70                75                80
Ala Lys Cys Arg Glu Cys Glu Ala Phe Met Val Ser Gly Thr Glu Cys
                85                90                95
Glu Glu Cys Phe Leu Thr Cys His Lys Arg Cys Leu Glu Thr Leu Leu
                100                105                110
Ile Leu Cys Gly His Arg Arg Leu Pro Ala Arg Thr Pro Leu Phe Gly
 115                120                125
Val Asp Phe Leu Gln Leu Pro Arg Asp Phe Pro Glu Glu Val Pro Phe
 130                135                140
Val Val Thr Lys Cys Thr Ala Glu Ile Glu His Arg Ala Leu Asp Val
 145                150                155                160
Gln Gly Ile Tyr Arg Val Ser Gly Ser Arg Val Arg Val Glu Arg Leu
                165                170                175
Cys Gln Ala Phe Glu Asn Gly Arg Ala Leu Val Glu Leu Ser Gly Asn
                180                185                190

```

```

Ser Pro His Asp Val Ser Ser Val Leu Lys Arg Phe Leu Gln Glu Leu
      195                200                205
Thr Glu Pro Val Ile Pro Phe His Leu Tyr Asp Ala Phe Ile Ser Leu
      210                215                220
Ala Lys Thr Leu His Ala Asp Pro Gly Asp Asp Pro Gly Thr Pro Ser
225                230                235                240
Pro Ser Pro Glu Val Ile Arg Ser Leu Lys Thr Leu Leu Val Gln Leu
      245                250                255
Pro Asp Ser Asn Tyr Asn Thr Leu Arg His Leu Val Ala His Leu Phe
      260                265                270
Arg Val Ala Ala Arg Phe Met Glu Asn Lys Met Ser Ala Asn Asn Leu
      275                280                285
Gly Ile Val Phe Gly Pro Thr Leu
      290                295 296

```

```

<210> 907
<211> 131
<212>Amino acid
<213> Homo sapiens

```

```

<400> 907
Gly Leu His Val Ile Ser Leu His Ser Ala Asp Gly Arg His Trp Glu
 1                5                10                15
Asp Pro Leu Ser Glu Leu Asp Ser Glu Arg Val Ser Ala Phe Leu Val
      20                25                30
Thr Glu Thr Leu Val Phe Tyr Leu Phe Cys Leu Leu Ala Asp Glu Thr
      35                40                45
Val Val Pro Pro Asp Val Pro Ser Tyr Leu Ser Ser Gln Gly Thr Leu
      50                55                60
Ser Asp Arg Gln Glu Thr Val Val Arg Thr Glu Gly Gly Pro Gln Ala
      65                70                75                80
Asn Gly His Ile Glu Ser Asn Gly Lys Ala Ser Val Thr Val Lys Gln
      85                90                95
Ser Ser Ala Val Thr Val Ser Leu Gly Ala Gly Gly Gly Leu Gln Val
      100                105                110
Phe Thr Gly Gln Val Pro Gly Ile Arg Trp Gly Lys Leu Gly Glu Ala
      115                120                125
His Ala Ser
      130 131

```

```

<210> 908
<211> 124
<212>Amino acid
<213> Homo sapiens

```

```

<400> 908
Lys Ile Lys His Arg Pro Glu Glu Glu Pro Arg Trp Ala Ala Ala Gly
 1                5                10                15
Ala Gln Ser Ala Gly Pro Gly Ala Ala Glu Val Ala Pro Pro Arg Pro
      20                25                30
Gly Thr Val Ala Pro Gly Ala Asn Gly Met Thr Asp Ser Ala Thr Ala
      35                40                45
Asn Gly Asp Asp Arg Asp Pro Glu Ile Glu Leu Phe Val Lys Ala Gly
      50                55                60

```



```

Ile Asp Gly Glu Ser Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe
 65          70          75          80
Met Ile Leu Trp Leu Lys Gly Val Val Phe Asn Val Thr Thr Val Asp
          85          90          95
Leu Lys Arg Lys Pro Ala Asp Leu Arg Asn Leu Ala Pro Gly Thr His
          100          105          110
Pro Pro Phe Leu Ala Phe Asn Trp Tyr Val Lys Thr
          115          120          124

```

<210> 909
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

```

<400> 909
Leu Gly Phe Ser Asp Gly Gln Glu Ala Arg Pro Glu Glu Ile Gly Trp
 1          5          10          15
Leu Asn Gly Tyr Asn Glu Thr Thr Gly Glu Arg Gly Asp Phe Pro Gly
          20          25          30
Thr Tyr Val Glu Tyr Ile Gly Arg Lys Lys Ile Ser Pro Pro Thr Pro
          35          40          45
Lys Pro Arg Pro Pro Arg Pro Leu Pro Val Ala Pro Gly Ser Ser Lys
          50          55          60
Thr Glu Ala Asp Val Glu Gln Gln Val Leu Tyr Lys Tyr Arg Lys Lys
          65          70          75          80
Pro Ser Ser Ser His Arg Pro Gln Thr Pro His Asn Gly Lys Ser Lys
          85          90          95
Asn Phe Leu His Lys Gln Gly Leu Lys Lys Lys Ala Ser Leu
          100          105          110 111

```

<210> 910
 <211> 298
 <212>Amino acid
 <213> Homo sapiens

```

<400> 910
Arg Thr Arg Gly Val Met Glu Leu Ala Leu Arg Arg Ser Pro Val Pro
 1          5          10          15
Arg Trp Leu Leu Leu Leu Pro Leu Leu Gly Leu Asn Ala Gly Ala
          20          25          30
Val Ile Asp Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val
          35          40          45
Thr Val Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr
          50          55          60
Asn Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
          65          70          75          80
Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu Ile
          85          90          95
Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp Leu Gln
          100          105          110
Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr Gly Phe Ser
          115          120          125
Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu Ala Met Val Ala
          130          135          140

```

```

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Phe Ser Cys His Lys Glu
145          150          155          160
Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys
          165          170          175
Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly
          180          185          190
Thr Ile Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile
          195          200          205
Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met
210          215          220
Ser Leu Leu Glu Asp Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu
225          230          235          240
Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu
          245          250          255
Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn
          260          265          270
Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His
          275          280          285
Gly Trp Cys Cys Gln Thr Trp Ser Leu His
290          295          298

```

```

<210> 911
<211> 213
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(213)
<223> X = any amino acid or stop code

```

```

<400> 911
Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro
1          5          10          15
Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Phe Leu Arg
          20          25          30
Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu
          35          40          45
Arg Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
          50          55          60
Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Pro Ala
65          70          75          80
Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg
          85          90          95
Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln
          100          105          110
Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu
          115          120          125
Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser
130          135          140
Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu
145          150          155          160
Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe
          165          170          175
Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp
          180          185          190
Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val
195          200          205
Leu Gly Leu Gln Val

```

210

213

<210> 912

<211> 583

<212> Amino acid

<213> Homo sapiens

<400> 912

```

Pro Ser Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg
 1          5          10          15
Lys Asp Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys
          20          25          30
Ala Gln Ile Glu Glu Pro Asp Pro Pro Glu Met Glu Thr Ser Leu Asp
          35          40          45
Ser Ser Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser
          50          55          60
Thr Glu Ser Cys Thr Met Lys Gly Glu Glu Lys Ser Pro Lys Thr Lys
          65          70          75          80
Lys Asp Lys Arg Pro Pro Ile Leu Glu Cys Leu Glu Lys Leu Glu Lys
          85          90          95
Ser Lys Lys Thr Phe Leu Asp Lys Asp Ala Gln Arg Leu Ser Pro Ile
          100          105          110
Pro Glu Glu Val Pro Lys Ser Thr Leu Glu Ser Glu Lys Pro Gly Ser
          115          120          125
Pro Glu Ala Ala Glu Thr Ser Pro Pro Ser Asn Ile Ile Asp His Cys
          130          135          140
Glu Lys Leu Ala Ser Glu Lys Glu Val Val Glu Cys Gln Ser Thr Ser
          145          150          155          160
Thr Val Gly Gly Gln Ser Val Lys Lys Val Asp Leu Glu Thr Leu Lys
          165          170          175
Glu Asp Ser Glu Phe Thr Lys Val Glu Met Asp Asn Leu Asp Asn Ala
          180          185          190
Gln Thr Ser Gly Ile Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln
          195          200          205
Lys Ser Lys Phe Lys Tyr Lys Leu Val Pro Glu Glu Glu Thr Thr Ala
          210          215          220
Ser Glu Asn Thr Glu Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys
          225          230          235          240
Leu Thr Ile Arg Ile Ser Ser Arg Lys Lys Lys Pro Asp Ser Pro Pro
          245          250          255
Lys Val Leu Glu Pro Glu Asn Lys Gln Glu Lys Thr Glu Lys Glu Glu
          260          265          270
Glu Lys Thr Asn Val Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser
          275          280          285
Arg Pro Thr Ala Lys Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys
          290          295          300
Lys Arg Gly Glu Gly Glu Asp Glu Val Glu Glu Glu Ser Thr Ala Leu
          305          310          315          320
Gln Lys Thr Asp Lys Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr
          325          330          335
Asn Ser Lys Val Ser Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr
          340          345          350
Gly Ser Arg Thr Arg Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser
          355          360          365
Glu Gly Ser Gly Ser Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu Glu
          370          375          380
Glu Lys Glu Ser Glu Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys
          385          390          395          400
Lys Lys Cys Gly Leu Pro Asn His Pro Glu Leu Ile Leu Leu Cys Asp

```

```

                405                410                415
Ser Cys Asp Ser Gly Tyr His Thr Ala Leu Pro Phe Ala Pro Pro Leu
                420                425                430
Met Ile His Pro Gln Met Gly Gly Trp Phe Cys Pro Thr Phe Cys Pro
                435                440                445
Thr Leu Asn Leu Leu Leu Leu Glu Lys Leu Glu Asp Gln Phe Gln Asp
                450                455                460
Leu Asp Val Ala Leu Lys Lys Glu Arg Ala Leu Pro Glu Arg Arg Lys
465                470                475                480
Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile Pro Pro
                485                490                495
Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys Asp Ser
                500                505                510
Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg Thr Arg
                515                520                525
Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile Asp Glu
530                535                540
Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val Gly Arg
545                550                555                560
Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp Ile Ser
                565                570                575
Thr Ile Leu Asp Glu Glu Arg
                580                583

```

<210> 913
 <211> 178
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 913
Lys Arg Arg Gly Ser Phe Lys Met Ala Glu Leu Asp Gln Leu Pro Asp
  1                5                10                15
Glu Ser Ser Ser Ala Lys Ala Leu Val Ser Leu Lys Glu Gly Ser Leu
                20                25                30
Ser Asn Thr Trp Asn Glu Lys Tyr Ser Ser Leu Gln Lys Thr Pro Val
                35                40                45
Trp Lys Gly Arg Asn Thr Ser Ser Ala Val Glu Met Pro Phe Arg Asn
                50                55                60
Ser Lys Arg Ser Arg Leu Phe Ser Asp Glu Asp Asp Arg Gln Ile Asn
65                70                75                80
Thr Arg Ser Pro Lys Arg Asn Gln Arg Val Ala Met Val Pro Gln Lys
                85                90                95
Phe Thr Ala Thr Met Ser Thr Pro Asp Lys Lys Ala Ser Gln Lys Ile
                100                105                110
Gly Phe Arg Leu Arg Asn Leu Leu Lys Leu Pro Lys Ala His Lys Trp
                115                120                125
Cys Ile Tyr Glu Trp Phe Tyr Ser Asn Ile Asp Lys Pro Leu Phe Glu
130                135                140
Gly Asp Asn Asp Phe Cys Val Cys Leu Lys Glu Ser Phe Pro Asn Leu
145                150                155                160
Lys Thr Arg Lys Leu Thr Arg Val Glu Trp Gly Lys Ile Arg Arg Leu
                165                170                175
Met Gly
178

```

<210> 914
 <211> 158
 <212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(158)

<223> X = any amino acid or stop code

<400> 914

```

Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile Pro Ile
 1           5           10           15
Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys Ile Ser
      20           25           30
Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu His Leu
      35           40           45
Asp Leu Tyr Leu Ala Ile Val Gly Leu Leu Ala Ile Thr Ala Val Tyr
      50           55           60
Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala Leu Gln
      65           70           75           80
Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr Ser Phe
      85           90           95
Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe Leu Ala
      100          105          110
Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro Arg Glu
      115          120          125
Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu Pro Trp
      130          135          140
Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Xaa *
145          150          155          157

```

<210> 915

<211> 108

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(108)

<223> X = any amino acid or stop code

<400> 915

```

Xaa Ser Ala Ser Ala Thr Ser Leu Thr Leu Ser His Cys Val Asp Val
 1           5           10           15
Val Lys Gly Leu Leu Asp Phe Lys Lys Arg Arg Gly His Ser Ile Gly
      20           25           30
Gly Ala Pro Glu Gln Arg Tyr Gln Ile Ile Pro Val Met Cys Cys Ser
      35           40           45
Leu Leu Ala Thr Gly Gly Ala Asp Arg Leu Ile His Leu Trp Asn Val
      50           55           60
Val Gly Ser Arg Leu Glu Ala Asn Gln Thr Leu Glu Gly Ala Gly Gly
      65           70           75           80
Ser Ile Thr Ser Val Asp Phe Asp Pro Ser Gly Tyr Gln Val Leu Ala
      85           90           95
Ala Thr Tyr Asn Gln Val Ala Gln Phe Trp Lys *
      100          105          107

```

<210> 916
 <211> 45
 <212> Amino acid
 <213> Homo sapiens

<400> 916
 Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu
 1 5 10 15
 Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg
 20 25 30
 Arg Leu Gly Met Val Phe Phe Ser Leu Leu Leu Ser Tyr
 35 40 45

<210> 917
 <211> 180
 <212> Amino acid
 <213> Homo sapiens

<400> 917
 Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu
 1 5 10 15
 Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser
 20 25 30
 Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr
 35 40 45
 Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg
 50 55 60
 Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr
 65 70 75 80
 Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr
 85 90 95
 Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe
 100 105 110
 Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro
 115 120 125
 Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser
 130 135 140
 Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu
 145 150 155 160
 Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro
 165 170 175
 Gln Leu His Asn
 180

<210> 918
 <211> 281
 <212> Amino acid
 <213> Homo sapiens

<400> 918

Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp
 1 5 10 15
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 20 25 30
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 35 40 45
 Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 50 55 60
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 65 70 75 80
 Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp
 85 90 95
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 100 105 110
 Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp
 115 120 125
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 130 135 140
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp
 145 150 155 160
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 165 170 175
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp
 180 185 190
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp
 195 200 205
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 210 215 220
 Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 225 230 235 240
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 245 250 255
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 260 265 270
 Glu Gly Lys Asp Glu Gly Lys Asp Lys
 275 280 281

<210> 919

<211> 147

<212> Amino acid

<213> Homo sapiens

<400> 919

Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly
 1 5 10 15
 Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile
 20 25 30
 Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala
 35 40 45
 Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala
 50 55 60
 Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser
 65 70 75 80
 Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln
 85 90 95
 Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro
 100 105 110
 Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

```

      115      120      125
Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu
      130      135      140
Tyr Val Pro
145      147

```

```

<210> 920
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

<400> 920
Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg
 1      5      10      15
Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser
      20      25      30
Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp
      35      40      45
Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn
      50      55      60
Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala
      65      70      75      80
Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu
      85      90      95
Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr
      100      105      110
Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe
      115      120      125
Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys
      130      135      140
Met Ala Ile Leu Ala Arg
145      150

```

```

<210> 921
<211> 125
<212>Amino acid
<213> Homo sapiens

```

```

<400> 921
Ile Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu
 1      5      10      15
Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu
      20      25      30
Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser
      35      40      45
Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser
      50      55      60
Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn
      65      70      75      80
Lys Leu Leu Gln Val Leu Arg Ala Leu Val Asp Ile His Val Leu Cys
      85      90      95
Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro
      100      105      110
Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys

```


115

120

125

<210> 922
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

<400> 922
 Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr
 1 5 10 15
 Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu
 20 25 30
 Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn
 35 40 45
 Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val
 50 55 60
 Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp
 65 70 75 80
 His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn
 85 90 95
 Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys
 100 105 110 111

<210> 923
 <211> 69
 <212>Amino acid
 <213> Homo sapiens

<400> 923
 Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp
 1 5 10 15
 Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile
 20 25 30
 Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr
 35 40 45
 Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu
 50 55 60
 Leu Leu Asp Ser Lys
 65 69

<210> 924
 <211> 120
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> X = any amino acid or stop code

<400> 924
 Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly
 1 5 10 15
 Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu
 20 25 30
 Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met
 35 40 45
 Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser
 50 55 60
 Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys
 65 70 75 80
 Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro
 85 90 95
 Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser
 100 105 110
 Asp Asn Gly Arg Ser Arg Tyr Arg
 115 120

<210> 925
 <211> 108
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(108)
 <223> X = any amino acid or stop code

<400> 925
 Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro
 1 5 10 15
 Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly
 20 25 30
 Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser
 35 40 45
 Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe
 50 55 60
 Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser
 65 70 75 80
 Leu Ile Gly Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly
 85 90 95
 Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg
 100 105 108

<210> 926
 <211> 305
 <212> Amino acid
 <213> Homo sapiens

<400> 926
 Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu
 1 5 10 15
 Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

20 25 30
 Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile
 35 40 45
 Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala
 50 55 60
 Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu
 65 70 75 80
 Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr
 85 90 95
 Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile
 100 105 110
 Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg
 115 120 125
 Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile
 130 135 140
 Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu
 145 150 155 160
 Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu
 165 170 175
 Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile
 180 185 190
 Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly
 195 200 205
 Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly
 210 215 220
 Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg
 225 230 235 240
 Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Pro Ser Ser Lys Val Ser
 245 250 255
 Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr
 260 265 270
 Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly
 275 280 285
 Lys Glu Gly Ser Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser
 290 295 300
 Pro
 305

<210> 927
 <211> 303
 <212> Amino acid
 <213> Homo sapiens

<400> 927
 Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro
 1 5 10 15
 Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser
 20 25 30
 Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu
 35 40 45
 Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln
 50 55 60
 His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro
 65 70 75 80
 Arg Gly Asn Thr Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys
 85 90 95
 Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val
 100 105 110
 Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser

```

      115      120      125
Lys Thr Glu Thr Val Glu Glu Pro Met Glu Glu Glu Glu Ala Ala Lys
      130      135      140
Glu Glu Lys Glu Glu Ser Asp Asp Glu Ala Ala Val Glu Glu Glu Glu
      145      150      155      160
Glu Glu Lys Lys Pro Lys Thr Lys Lys Val Glu Lys Thr Val Trp Asp
      165      170      175
Trp Glu Leu Met Asn Asp Ile Lys Pro Ile Trp Gln Arg Pro Ser Lys
      180      185      190
Glu Val Glu Glu Asp Glu Tyr Lys Ala Phe Tyr Lys Ser Phe Ser Lys
      195      200      205
Glu Ser Asp Asp Pro Met Ala Tyr Ile His Phe Thr Ala Glu Gly Glu
      210      215      220
Val Thr Phe Lys Ser Ile Leu Phe Val Pro Thr Ser Ala Pro Arg Gly
      225      230      235      240
Leu Phe Asp Glu Tyr Gly Ser Lys Lys Ser Asp Tyr Ile Lys Leu Tyr
      245      250      255
Val Arg Arg Val Phe Ile Thr Asp Asp Phe His Asp Met Met Pro Lys
      260      265      270
Tyr Leu Asn Phe Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu
      275      280      285
Asn Val Ser Arg Glu Thr Leu Gln Gln His Lys Leu Lys Val
      290      295      300      303

```

<210> 928
 <211> 147
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 928
Cys Gly Ser Trp Met Arg Arg Ala Leu Ile Pro Pro Cys Arg Gly Gly
      1      5      10      15
Pro Ser Ala Ser Asp Arg Cys Cys Ser Cys Ser Pro Ser Gly Phe Ser
      20      25      30
Ala Gly Arg Gly Arg Cys Pro Val Gln Gly Cys Leu Arg Pro His Arg
      35      40      45
Val Gln Leu Leu Arg Arg Trp Gly Pro Gly Ser Pro Ala Gly Gln Arg
      50      55      60
Leu Ser Lys Gly Phe Gln Leu Leu Arg Trp Trp Gly Pro Gly Ser Pro
      65      70      75      80
Ala Pro Glu Pro Arg Lys Gly Pro Phe Pro Pro Pro Asp Pro Pro Trp
      85      90      95
Pro Val Thr Ala Val Thr Val Met Ala Gly Ser Val Pro Ser Ala Gln
      100      105      110
Ser Val Asp Ala Leu Glu Ser Pro Gly Pro Leu Ala Leu Glu Gly Pro
      115      120      125
Ser Ser Pro Arg Asn Leu Leu Trp Arg Glu Met Ser Ile Phe Leu Pro
      130      135      140
Gly Ile Phe
      145      147

```

<210> 929
 <211> 183
 <212> Amino acid
 <213> Homo sapiens

<400> 929
 Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu
 1 5 10 15
 Ile Arg Val Glu Thr Pro Gly Pro Pro Ala Pro Pro Ala Asp Glu Arg
 20 25 30
 Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp
 35 40 45
 Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly
 50 55 60
 Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu
 65 70 75 80
 Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu
 85 90 95
 Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu
 100 105 110
 Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu
 115 120 125
 Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln
 130 135 140
 Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp
 145 150 155 160
 Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Pro Val Gly Gln Leu
 165 170 175
 Asp Ser Ser Pro Ser Leu Pro
 180 183

<210> 930
 <211> 187
 <212> Amino acid
 <213> Homo sapiens

<400> 930
 Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln
 1 5 10 15
 His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn
 20 25 30
 Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met
 35 40 45
 Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr
 50 55 60
 Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp
 65 70 75 80
 Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp
 85 90 95
 Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr
 100 105 110
 Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Gln Ile Leu Ala Ser His
 115 120 125
 Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His
 130 135 140
 Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile
 145 150 155 160
 Ile Asn Ile Asn Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp
 165 170 175
 Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys
 180 185 187

<210> 931
 <211> 192
 <212>Amino acid
 <213> Homo sapiens

<400> 931
 Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg
 1 5 10 15
 Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe
 20 25 30
 Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val
 35 40 45
 Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Ile Arg Trp Phe
 50 55 60
 Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp
 65 70 75 80
 Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn
 85 90 95
 Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val
 100 105 110
 Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly
 115 120 125
 Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu
 130 135 140
 Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr
 145 150 155 160
 His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr
 165 170 175
 Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu
 180 185 190 192

<210> 932
 <211> 545
 <212>Amino acid
 <213> Homo sapiens

<400> 932
 Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln
 1 5 10 15
 Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser
 20 25 30
 Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp
 35 40 45
 Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly
 50 55 60
 Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys
 65 70 75 80
 Gln Ile Asp Ile Met Val Ala His Lys Lys Ser Glu Trp Glu Gly Arg
 85 90 95
 Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys
 100 105 110
 Ser Leu Arg Ser Gln Leu Asp Val Thr His Lys Glu Val Gly Met Leu

```
<210> 933
<211> 297
<212> Amino acid
<213> Homo sapiens
```

<400> 933

```

Thr Gly Phe Leu Gly Trp Ser Gln Gly Pro Ser Leu Thr Pro Thr Ser
 1          5          10          15
Leu Ser Ala Leu Tyr Pro Ser Gln Val Glu Thr Gly Val Val Leu
          20          25          30
Ser Leu Glu Gln Thr Glu Gln His Ser Arg Arg Pro Ile Gln Arg Gly
          35          40          45
Ala Pro Ser Gln Lys Asp Thr Pro Asn Pro Gly Asp Ser Leu Asp Thr
          50          55          60
Pro Gly Pro Arg Ile Leu Ala Phe Leu His Pro Pro Ser Leu Ser Glu
          65          70          75          80
Ala Ala Leu Ala Ala Asp Pro Arg Arg Phe Cys Ser Pro Asp Leu Arg
          85          90          95
Arg Leu Leu Gly Pro Ile Leu Asp Gly Ala Ser Val Ala Ala Thr Pro
          100          105          110
Ser Thr Pro Leu Ala Thr Arg His Pro Gln Ser Pro Leu Ser Ala Asp
          115          120          125
Leu Pro Asp Glu Leu Pro Val Gly Thr Glu Asn Val His Arg Leu Phe
          130          135          140
Thr Ser Gly Lys Asp Thr Glu Ala Val Glu Thr Asp Leu Asp Ile Ala
          145          150          155          160
Gln Asp Ala Asp Ala Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Ser
          165          170          175
Met Asp Asp Asp Phe Gln Leu Asn Ala Ser Glu Gln Leu Pro Arg Ala
          180          185          190
Tyr His Arg Pro Leu Gly Ala Val Pro Arg Pro Arg Ala Arg Ser Phe
          195          200          205
His Gly Leu Ser Pro Pro Ala Leu Glu Pro Ser Leu Leu Pro Arg Trp
          210          215          220
Gly Ser Asp Pro Arg Leu Ser Cys Ser Ser Pro Ser Arg Gly Asp Pro
          225          230          235          240
Ser Ala Ser Ser Pro Met Ala Gly Ala Arg Lys Arg Thr Leu Ala Gln
          245          250          255
Ser Ser Lys Asp Glu Asp Glu Gly Val Glu Leu Leu Gly Val Arg Pro
          260          265          270
Pro Lys Arg Ser Pro Ser Pro Glu His Glu Asn Phe Leu Leu Phe Pro
          275          280          285
Leu Ser Leu Ser Phe Leu Leu Thr Gly
          290          295          297

```

<210> 934

<211> 140

<212> Amino acid

<213> Homo sapiens

<400> 934

```

Glu Leu Gln Asp Cys Phe Asp Val His Asp Ala Ser Trp Glu Glu Gln
 1          5          10          15
Ile Phe Trp Gly Trp His Asn Asp Val His Ile Phe Asp Thr Lys Thr
          20          25          30
Gln Thr Trp Phe Gln Pro Glu Ile Lys Gly Gly Val Pro Pro Gln Pro
          35          40          45
Arg Ala Ala His Thr Cys Ala Val Leu Gly Asn Lys Gly Tyr Ile Phe
          50          55          60
Gly Gly Arg Val Leu Gln Thr Arg Met Asn Asp Leu His Tyr Leu Asn
          65          70          75          80
Leu Asp Thr Trp Thr Trp Ser Gly Arg Ile Thr Ile Asn Gly Glu Ser

```



```

      85      90      95
Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala Asp Asp Lys
      100      105      110
Leu Phe Leu Cys Gly Gly Leu Asn Ala Tyr Asn Met Pro Leu Ser Asp
      115      120      125
Gly Trp Ile His Asn Val Thr Thr His Cys Trp Lys
      130      135      140

```

<210> 935
 <211> 97
 <212> Amino acid
 <213> Homo sapiens

```

    <400> 935
Phe Phe Phe Leu Arg Thr Arg Ser His Ser Val Thr Pro Arg Trp Glu
  1      5      10      15
Cys Ser Asp Asp Ile Thr Ala His Trp Gln Pro Gln Pro Trp Gly Ser
      20      25      30
Ser Asp Pro Leu Thr Phe Ser Arg Pro Gln Val Val Val Pro Pro Arg
      35      40      45
His Thr Thr Leu Cys Pro Ala Asn Phe Phe Val Phe Cys Ile Phe Cys
      50      55      60
Arg Asn Arg Ile Ser Pro Cys Trp Pro Gly Trp Ser Arg Thr Pro Trp
      65      70      75      80
Ala Gln Leu Ile Arg Leu Pro Arg Pro Pro Lys Val Leu Gly Leu Gln
      85      90      95
Val
  97

```

<210> 936
 <211> 245
 <212> Amino acid
 <213> Homo sapiens

```

    <400> 936
Pro Arg Glu Gly Gln Val Lys Gln Gly Leu Leu Gly Asp Cys Trp Phe
  1      5      10      15
Leu Cys Ala Cys Ala Ala Leu Gln Lys Ser Arg His Leu Leu Asp Gln
      20      25      30
Val Ile Pro Pro Gly Gln Pro Ser Trp Ala Asp Gln Glu Tyr Arg Gly
      35      40      45
Ser Phe Thr Cys Arg Ile Trp Gln Phe Gly Arg Trp Val Glu Val Thr
      50      55      60
Thr Asp Asp Arg Leu Pro Cys Leu Ala Gly Arg Leu Cys Phe Ser Arg
      65      70      75      80
Cys Gln Arg Glu Asp Val Phe Trp Leu Pro Leu Leu Glu Lys Val Tyr
      85      90      95
Ala Lys Val His Gly Ser Tyr Glu His Leu Trp Ala Gly Gln Val Ala
      100      105      110
Asp Ala Leu Val Asp Leu Thr Gly Gly Leu Ala Glu Arg Trp Asn Leu
      115      120      125
Lys Gly Val Ala Gly Ser Gly Gly Gln Gln Asp Arg Pro Gly Arg Trp
      130      135      140
Glu His Arg Thr Cys Arg Gln Leu Leu His Leu Lys Asp Gln Cys Leu

```

145					150					155				160
Ile	Ser	Cys	Cys	Val	Leu	Ser	Pro	Arg	Ala	Gly	Glu	Ala	Arg	Gly
				165					170					175
His	Gly	Arg	Ala	Ala	Ala	Ser	Val	Pro	Pro	Thr	Ala	Arg	Pro	Gln
			180					185					190	Ala
His	Cys	Ser	Phe	Leu	Cys	Asp	Trp	Leu	His	Ser	Pro	Val	Arg	Thr
		195					200					205		Lys
Trp	Glu	Glu	Val	Ser	Leu	Phe	Ser	Arg	Val	Val	Ser	Ser	Val	Cys
	210					215					220			Asp
Leu	Pro	Leu	Leu	Ser	Ser	Ser	Arg	Gly	Thr	Trp	Pro	Phe	Ser	Pro
225					230					235				240
Thr	Ser	Pro	Phe	His										
				245										

<210> 937
 <211> 211
 <212> Amino acid
 <213> Homo sapiens

<400> 937															
Ala	Glu	Cys	Leu	Glu	Ala	Ser	Ile	Ala	Arg	Tyr	Ala	His	Arg	Val	Ala
1				5					10					15	
Asn	Ser	Arg	Tyr	Thr	Phe	Asp	Gly	Glu	Thr	Val	Thr	Leu	Ser	Pro	Ser
		20						25					30		
Gln	Gly	Val	Asn	Gln	Leu	His	Gly	Gly	Pro	Glu	Gly	Phe	Asp	Lys	Arg
		35					40					45			
Arg	Trp	Gln	Ile	Val	Asn	Gln	Asn	Asp	Arg	Gln	Val	Leu	Phe	Ala	Leu
	50					55					60				
Ser	Ser	Asp	Asp	Gly	Asp	Gln	Gly	Phe	Pro	Gly	Asn	Leu	Gly	Ala	Thr
65					70					75					80
Val	Gln	Tyr	Arg	Leu	Thr	Asp	Asp	Asn	Arg	Ile	Ser	Ile	Thr	Tyr	Arg
				85					90					95	
Ala	Thr	Val	Asp	Lys	Pro	Cys	Pro	Val	Asn	Met	Thr	Asn	His	Val	Tyr
			100					105					110		
Phe	Asn	Leu	Asp	Gly	Glu	Gln	Ser	Asp	Val	Arg	Asn	His	Lys	Leu	Gln
		115					120					125			
Ile	Leu	Ala	Asp	Glu	Tyr	Leu	Pro	Val	Asp	Glu	Gly	Gly	Ile	Pro	His
130						135					140				
Asp	Gly	Leu	Lys	Ser	Val	Ala	Gly	Thr	Ser	Phe	Asp	Phe	Arg	Ser	Ala
145				150					155						160
Lys	Ile	Ile	Ala	Ser	Glu	Phe	Leu	Ala	Asp	Asp	Asp	Gln	Arg	Lys	Val
			165					170						175	
Lys	Gly	Tyr	Asp	His	Ala	Phe	Leu	Leu	Gln	Ala	Lys	Gly	Asp	Gly	Lys
			180					185					190		
Lys	Val	Ala	Ala	His	Val	Trp	Ser	Ala	Asp	Glu	Lys	Leu	Gln	Leu	Lys
		195					200					205			
Val	Tyr	Thr													
			210											211	

<210> 938
 <211> 118
 <212> Amino acid
 <213> Homo sapiens

<400> 938

```

Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met
 1           5           10           15
Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln
          20           25           30
His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu
          35           40           45
Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu
          50           55           60
His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala
          65           70           75           80
Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn
          85           90           95
Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg
          100          105          110
Ala Ser Cys Leu Phe Leu
          115          118

```

<210> 939

<211> 143

<212>Amino acid

<213> Homo sapiens

<400> 939

```

Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu Glu
 1           5           10           15
Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu
          20           25           30
Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe
          35           40           45
Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser
          50           55           60
Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr
          65           70           75           80
Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln
          85           90           95
Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu
          100          105          110
Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu
          115          120          125
Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu
          130          135          140          143

```

<210> 940

<211> 63

<212>Amino acid

<213> Homo sapiens

<400> 940

```

Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro
 1           5           10           15
Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu
          20           25           30
Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

```

35 40 45

Asn Pro Asn Gly His Ser Gln Pro Gln Asp Ser Phe Leu Leu *

50 55 60 62

```
<210> 941
<211> 238
<212> Amino acid
<213> Homo sapiens
```

<400> 941															
Phe	Glu	Thr	Leu	Ser	Met	Arg	Gly	Ile	Pro	His	Met	Leu	Ala	Leu	Gly
1				5					10					15	
Pro	Gln	Gln	Leu	Leu	Ala	Gln	Asp	Glu	Glu	Gly	Asp	Thr	Leu	Leu	His
			20					25					30		
Leu	Phe	Ala	Ala	Arg	Gly	Leu	Arg	Trp	Ala	Ala	Tyr	Ala	Ala	Ala	Glu
		35					40					45			
Val	Leu	Gln	Val	Tyr	Arg	Arg	Leu	Asp	Ile	Arg	Glu	His	Lys	Gly	Lys
50					55						60				
Thr	Pro	Leu	Leu	Val	Ala	Ala	Ala	Asn	Gln	Pro	Leu	Ile	Val	Glu	
65				70					75					80	
Asp	Leu	Leu	Asn	Leu	Gly	Ala	Glu	Pro	Asn	Ala	Ala	Asp	His	Gln	Gly
			85						90					95	
Arg	Ser	Val	Leu	His	Val	Ala	Ala	Thr	Tyr	Gly	Leu	Pro	Gly	Val	Leu
			100					105					110		
Leu	Ala	Val	Leu	Asn	Ser	Gly	Val	Gln	Val	Asp	Leu	Glu	Ala	Arg	Asp
		115				120					125				
Phe	Glu	Gly	Leu	Thr	Pro	Leu	His	Thr	Ala	Ile	Leu	Ala	Leu	Asn	Val
130						135				140					
Ala	Met	Arg	Pro	Ser	Asp	Leu	Cys	Pro	Arg	Val	Leu	Ser	Thr	Gln	Ala
145				150					155					160	
Arg	Asp	Arg	Leu	Asp	Cys	Val	His	Met	Leu	Leu	Gln	Met	Gly	Ala	Asn
				165				170						175	
His	Thr	Ile	Gln	Val	Ser	Gly	Asp	Val	Gly	Gly	Gln	Thr	Leu	Gly	Asp
			180				185						190		
Cys	Val	Glu	Trp	Gly	His	Leu	Asp	Val	Arg	Glu	Leu	Gln	Ala	Asn	Ala
		195				200					205				
Asp	Phe	Ala	Ser	Ser	Leu	Leu	Arg	Ala	Leu	Glu	His	Val	Thr	Ser	Leu
		210				215					220				
Leu	Cys	Ala	Leu	Arg	Val	Phe	Cys	Leu	Phe	Leu	Cys	Gln	Leu		
225					230					235			238		

```
<210> 942
<211> 158
<212> Amino acid
<213> Homo sapiens
```

<400> 942															
Asp	Ala	Trp	Ala	Asp	Ala	Trp	Val	Gly	Thr	Lys	Met	Ala	Asp	Leu	Asp
1				5					10					15	
Ser	Pro	Pro	Lys	Leu	Ser	Gly	Val	Gln	Gln	Pro	Ser	Glu	Gly	Val	Gly
			20					25					30		
Gly	Gly	Arg	Cys	Ser	Glu	Ile	Ser	Ala	Glu	Leu	Ile	Arg	Ser	Leu	Thr
		35				40					45				
Glu	Leu	Gln	Glu	Leu	Glu	Ala	Val	Tyr	Glu	Arg	Leu	Cys	Gly	Glu	Glu

50	55	60																	
Lys	Val	Val	Glu	Arg	Glu	Leu	Asp	Ala	Leu	Leu	Glu	Gln	Gln	Asn	Thr				
65					70					75					80				
Ile	Glu	Ser	Lys	Met	Val	Thr	Leu	His	Arg	Met	Gly	Pro	Asn	Leu	Gln				
				85					90					95					
Leu	Ile	Glu	Gly	Asp	Ala	Lys	Gln	Leu	Ala	Gly	Met	Ile	Thr	Phe	Thr				
			100					105					110						
Cys	Asn	Leu	Ala	Glu	Asn	Val	Ser	Ser	Lys	Val	Arg	Gln	Leu	Asp	Leu				
		115					120					125							
Ala	Lys	Asn	Arg	Leu	Tyr	Gln	Ala	Ile	Gln	Arg	Ala	Asp	Asp	Ile	Leu				
	130					135					140								
Asp	Leu	Lys	Phe	Cys	Met	Asp	Gly	Val	Gln	Thr	Ala	Leu	Arg						
145					150					155			158						

<210> 943
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

<400> 943																			
Ala	Val	Glu	Phe	Arg	Val	Pro	Arg	Ser	Gly	Ser	Ala	Tyr	Leu	Tyr	Ser				
1				5					10					15					
Tyr	Val	Thr	Val	Gly	Glu	Leu	Trp	Ala	Phe	Thr	Thr	Gly	Trp	Asn	Leu				
			20					25					30						
Ile	Leu	Ser	Tyr	Val	Ile	Gly	Thr	Ala	Ser	Val	Ala	Arg	Ala	Trp	Ser				
		35				40						45							
Ser	Ala	Phe	Asp	Asn	Leu	Ile	Gly	Asn	His	Ile	Ser	Lys	Thr	Leu	Gln				
	50				55					60									
Gly	Ser	Ile	Ala	Leu	His	Val	Pro	His	Val	Leu	Ala	Glu	Tyr	Pro	Asp				
65				70						75				80					
Phe	Phe	Ala	Leu	Gly	Leu	Val	Leu	Leu	Leu	Thr	Gly	Leu	Leu	Ala	Leu				
			85					90					95						
Gly	Ala	Ser	Glu	Ser	Ala	Leu	Val	Thr	Lys	Val	Phe	Thr	Gly	Val	Asn				
			100					105					110						
Leu	Leu	Val	Leu	Gly	Phe	Val	Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp				
		115				120					125								
Val	His	Asn	Trp	Lys	Leu	Thr	Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala				
	130				135					140									
Glu	Leu	Asn	Asp	Thr	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe				
145				150					155					160					
Val	Pro	Phe	Gly	Phe	Glu	Gly	Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe				
			165					170					175						
Tyr	Ala	Phe	Val	Gly	Phe	Asp	Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala				
		180					185					190							
Gln	Asn	Pro	Gln	Arg	Ser	Ile	Pro	Met	Gly	Ile	Gly	Ile	Ser	Leu	Ser				
	195					200						205							
Val	Cys	Phe	Leu	Ala	Asp	Phe	Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met				
	210				215						220								
Met	Pro	Tyr	Tyr	Gln	Leu	Gln	Pro	Glu	Ser	Pro									
225				230					235										

<210> 944
 <211> 284
 <212>Amino acid
 <213> Homo sapiens

<400> 944

Gly	Phe	His	Pro	Asn	Thr	Thr	His	Tyr	Arg	Ala	Arg	Ala	Ala	Ala	Arg
1				5					10					15	
Ala	Gly	Ala	Gly	Ser	Phe	Val	Gly	Glu	Val	Ser	Ala	Val	Asp	Lys	Asp
			20					25					30		
Phe	Gly	Pro	Asn	Gly	Glu	Val	Arg	Tyr	Ser	Phe	Glu	Met	Val	Gln	Pro
		35					40					45			
Asp	Phe	Glu	Leu	His	Ala	Ile	Ser	Gly	Glu	Ile	Thr	Asn	Thr	His	Gln
		50				55					60				
Phe	Asp	Arg	Glu	Ser	Leu	Met	Arg	Arg	Arg	Gly	Thr	Ala	Val	Phe	Ser
		65			70					75				80	
Phe	Thr	Val	Ile	Ala	Thr	Asp	Gln	Gly	Ile	Pro	Gln	Pro	Leu	Lys	Asp
				85				90						95	
Gln	Ala	Thr	Val	His	Val	Tyr	Met	Lys	Asp	Ile	Asn	Asp	Asn	Ala	Pro
			100					105					110		
Lys	Phe	Leu	Lys	Asp	Phe	Tyr	Gln	Ala	Thr	Ile	Ser	Glu	Ser	Ala	Ala
		115					120					125			
Asn	Leu	Thr	Gln	Val	Leu	Arg	Val	Ser	Ala	Ser	Asp	Val	Asp	Glu	Gly
		130				135					140				
Asn	Asn	Gly	Leu	Ile	His	Tyr	Ser	Ile	Ile	Lys	Gly	Asn	Glu	Glu	Arg
				150						155				160	
Gln	Phe	Ala	Ile	Asp	Ser	Thr	Ser	Gly	Gln	Val	Thr	Leu	Ile	Gly	Lys
				165					170					175	
Leu	Asp	Tyr	Glu	Ala	Thr	Pro	Ala	Tyr	Ser	Leu	Val	Ile	Gln	Ala	Val
			180					185					190		
Asp	Ser	Gly	Thr	Ile	Pro	Leu	Asn	Ser	Thr	Cys	Thr	Leu	Asn	Ile	Asp
		195					200					205			
Ile	Leu	Asp	Glu	Asn	Asp	Asn	Thr	Pro	Phe	Phe	Leu	Leu	Asn	Gln	His
		210				215					220				
Phe	Phe	Val	Asp	Val	Leu	Glu	Asn	Met	Arg	Ile	Gly	Glu	Leu	Gly	Ala
		225			230					235				240	
Ser	Gly	Thr	Ala	Thr	Asp	Ser	Asp	Ser	Gly	Asp	Ile	Ala	Asp	Leu	Tyr
				245					250					255	
Tyr	Lys	Phe	Thr	Gly	Thr	Lys	His	Pro	Pro	Gly	Thr	Phe	Ser	Ile	Ser
			260				265						270		
Pro	Lys	His	Leu	Gly	Val	Phe	Phe	Leu	Ala	Gln	Lys				
		275					280				284				

<210> 945
 <211> 119
 <212> Amino acid
 <213> Homo sapiens

<400> 945

Gly	Asp	Cys	Tyr	Asp	Leu	Tyr	Gly	Gly	Glu	Lys	Phe	Ala	Thr	Leu	Ala
1				5					10					15	
Glu	Leu	Val	Gln	Tyr	Tyr	Met	Glu	His	His	Gly	Gln	Leu	Lys	Glu	Lys
			20					25					30		
Asn	Gly	Asp	Val	Ile	Glu	Leu	Lys	Asn	Pro	Leu	Asn	Cys	Ala	Asp	Pro
		35					40					45			
Thr	Ser	Gln	Arg	Trp	Phe	His	Gly	His	Leu	Ser	Gly	Lys	Glu	Ala	Glu
		50				55					60				
Lys	Leu	Leu	Thr	Glu	Lys	Gly	Lys	His	Ser	Ser	Phe	Leu	Val	Arg	Glu
		65			70				75					80	
Ser	Gln	Ser	His	Pro	Gly	Asp	Phe	Val	Leu	Ser	Val	Cys	Thr	Gly	Asp
			85					90					95		
Asp	Lys	Gly	Glu	Ser	Asn	Asp	Gly	Lys	Ser	Lys	Val	Thr	His	Val	Met

100 105 110
 Ile His Cys Gln Glu Leu Lys
 115 119

<210> 946
 <211> 166
 <212>Amino acid
 <213> Homo sapiens

<400> 946
 Ile Asp Ser Gly Asn Gln Asn Gly Gly Asn Asp Asp Lys Thr Lys Asn
 1 5 10 15
 Ala Glu Arg Asn Tyr Leu Asn Val Leu Pro Gly Glu Phe Tyr Ile Thr
 20 25 30
 Arg His Ser Asn Leu Ser Glu Ile His Val Ala Phe His Leu Cys Val
 35 40 45
 Asp Asp His Val Lys Ser Gly Asn Ile Thr Ala Arg Asp Pro Ala Ile
 50 55 60
 Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr
 65 70 75 80
 Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met
 85 90 95
 Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val
 100 105 110
 Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg
 115 120 125
 Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr
 130 135 140
 Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu
 145 150 155 160
 Thr Leu Thr Ser Lys His
 165 166

<210> 947
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

<400> 947
 Ser Ile Leu Pro Ala Leu Leu Val Thr Ile Leu Ile Phe Met Asp Gln
 1 5 10 15
 Gln Ile Thr Ala Val Ile Val Asn Arg Lys Glu Asn Lys Leu Lys Lys
 20 25 30
 Ala Ala Gly Tyr His Leu Asp Leu Phe Trp Val Gly Ile Leu Met Ala
 35 40 45
 Leu Cys Ser Phe Met Gly Leu Pro Trp Tyr Val Ala Ala Thr Val Ile
 50 55 60
 Ser Ile Ala His Ile Asp Ser Leu Lys Met Glu Thr Glu Thr Ser Ala
 65 70 75 80
 Pro Gly Glu Gln Pro Gln Phe Leu Gly Val Arg Glu Gln Arg Val Thr
 85 90 95
 Gly Ile Ile Val Phe Ile Leu Thr Gly Ile Ser Val Phe Leu Ala Pro
 100 105 110
 Ile Leu Lys Cys Ile Pro Leu Pro Val

115

120 121

<210> 948
 <211> 191
 <212>Amino acid
 <213> Homo sapiens

<400> 948
 Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp
 1 5 10 15
 Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr
 20 25 30
 Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr
 35 40 45
 Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val
 50 55 60
 Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser
 65 70 75 80
 Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser
 85 90 95
 Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile
 100 105 110
 Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly
 115 120 125
 Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp
 130 135 140
 Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr
 145 150 155 160
 Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val
 165 170 175
 Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser
 180 185 190 191

<210> 949
 <211> 98
 <212>Amino acid
 <213> Homo sapiens

<400> 949
 Phe Phe Ser Ser Ile Gln Leu Thr Asp Asp Gln Gly Pro Val Leu Met
 1 5 10 15
 Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser
 20 25 30
 Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu
 35 40 45
 Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro
 50 55 60
 Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser
 65 70 75 80
 Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr
 85 90 95
 Ala Cys
 98

<210> 950
 <211> 196
 <212>Amino acid
 <213> Homo sapiens

<400> 950
 Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser
 1 5 10 15
 Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr
 20 25 30
 Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr
 35 40 45
 Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln
 50 55 60
 Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg
 65 70 75 80
 Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu
 85 90 95
 Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val
 100 105 110
 Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile
 115 120 125
 Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val
 130 135 140
 Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala
 145 150 155 160
 Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val
 165 170 175
 Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Lys Ile
 180 185 190
 His Pro Gln Tyr
 195 196

<210> 951
 <211> 721
 <212>Amino acid
 <213> Homo sapiens

<400> 951
 Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr
 1 5 10 15
 Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Val Gly
 20 25 30
 Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu
 35 40 45
 Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile
 50 55 60
 Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Met Leu Asn Asn
 65 70 75 80
 Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val
 85 90 95
 Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly
 100 105 110
 Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

115	120	125
Ala Phe Asp Pro Pro Asn Phe Pro Ile Cys Leu Leu Gly Asn Arg Thr		
130	135	140
Leu Ser Arg His Gly Phe Asp Val Cys Ala Lys Leu Ala Trp Glu Gly		
145	150	155
Asn Glu Thr Val Thr Arg Leu Trp Gly Leu Phe Cys Ser Ser Arg		160
	165	170
Phe Leu Asn Ala Thr Cys Asp Glu Tyr Phe Thr Arg Asn Asn Val Thr		175
	180	185
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Leu Ile Lys Glu Asn		190
	195	200
Leu Trp Ser Ser Tyr Leu Thr Lys Gly Val Ile Val Glu Arg Ser Gly		205
	210	215
Met Thr Ser Val Gly Leu Ala Asp Gly Thr Pro Ile Asp Met Asp His		220
225	230	235
Pro Tyr Val Phe Ser Asp Met Thr Ser Tyr Phe Thr Leu Leu Val Gly		240
	245	250
Ile Tyr Phe Pro Ser Val Thr Gly Ile Met Ala Gly Ser Asn Arg Ser		255
	260	265
Gly Asp Leu Arg Asp Ala Gln Lys Ser Ile Pro Thr Gly Thr Ile Leu		270
	275	280
Ala Ile Ala Thr Thr Ser Ala Val Tyr Ile Ser Ser Val Val Leu Phe		285
	290	295
Gly Ala Cys Ile Glu Gly Val Val Leu Arg Asp Lys Phe Gly Glu Ala		300
305	310	315
Val Asn Gly Asn Leu Val Val Gly Thr Leu Ala Trp Pro Ser Pro Trp		320
	325	330
Val Ile Val Ile Gly Ser Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln		335
	340	345
Ser Leu Thr Gly Ala Pro Arg Leu Leu Gln Ala Ile Ser Arg Asp Gly		350
	355	360
Ile Val Pro Phe Leu Gln Val Phe Gly His Gly Lys Ala Asn Gly Glu		365
	370	375
Pro Thr Trp Ala Leu Leu Thr Ala Cys Ile Cys Glu Ile Gly Ile		380
385	390	395
Leu Ile Ala Ser Leu Asp Glu Val Ala Pro Ile Leu Ser Met Phe Phe		400
	405	410
Leu Met Cys Tyr Met Phe Val Asn Leu Ala Cys Ala Val Gln Thr Leu		415
	420	425
Leu Arg Thr Pro Asn Trp Arg Pro Arg Phe Arg Tyr Tyr His Trp Thr		430
	435	440
Leu Ser Phe Leu Gly Met Ser Leu Cys Leu Ala Leu Met Phe Ile Cys		445
	450	455
Ser Trp Tyr Tyr Ala Leu Val Ala Met Leu Ile Ala Gly Leu Ile Tyr		460
465	470	475
Lys Tyr Ile Glu Tyr Arg Gly Ala Lys Lys Glu Trp Gly Asp Gly Ile		480
	485	490
Arg Gly Leu Ser Leu Ser Ala Ala Arg Tyr Ala Leu Leu Arg Leu Glu		495
	500	505
Glu Gly Pro Pro His Thr Lys Asn Trp Arg Pro Gln Leu Leu Val Leu		510
	515	520
Val Arg Val Asp Gln Asp Gln Asn Val Val His Pro Gln Leu Leu Ser		525
	530	535
Leu Thr Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser		540
545	550	555
Val Leu Glu Gly Thr Phe Leu Glu Asn His Pro Gln Ala Gln Arg Ala		560
	565	570
Glu Glu Ser Ile Arg Arg Leu Met Glu Ala Glu Lys Val Lys Gly Phe		575
	580	585
Cys Gln Val Val Ile Ser Ser Asn Leu Arg Asp Gly Val Ser His Leu		590
	595	600
Ile Gln Ser Gly Gly Leu Gly Gly Leu Gln His Asn Thr Val Leu Val		605
	610	615
Gly Trp Pro Arg Asn Trp Arg Gln Lys Glu Asp His Gln Thr Trp Arg		620

625 630 635 640
 Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu
 645 650 655
 Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe
 660 665 670
 Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met
 675 680 685
 Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys
 690 695 700
 Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala
 705 710 715 720
 Met
 721

<210> 952
 <211> 42
 <212> Amino acid
 <213> Homo sapiens

<400> 952
 Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys
 1 5 10 15
 Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala
 20 25 30
 Ser Gly Ser Asp Asp Ala Lys Gly Thr Val
 35 40 42

<210> 953
 <211> 80
 <212> Amino acid
 <213> Homo sapiens

<400> 953
 Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu
 1 5 10 15
 Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala
 20 25 30
 Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val
 35 40 45
 Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile
 50 55 60
 Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro
 65 70 75 80

<210> 954
 <211> 202
 <212> Amino acid
 <213> Homo sapiens

<400> 954

```

Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val
 1          5          10          15
Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu
          20          25          30
Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys
          35          40          45
His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly
          50          55          60
Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn
          65          70          75          80
Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro
          85          90          95
Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg
          100          105          110
Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu
          115          120          125
Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr
          130          135          140
Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala
          145          150          155          160
Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu
          165          170          175
Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr
          180          185          190
Pro Val Gly Asp Pro Met Asp Leu Lys Met
          195          200          202

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<210> 955

<211> 188

<212> Amino acid

<213> Homo sapiens

<400> 955

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Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr
 1          5          10          15
Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln
          20          25          30
Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu
          35          40          45
Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln
          50          55          60
Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser
          65          70          75          80
His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala
          85          90          95
Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln
          100          105          110
Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys
          115          120          125
Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile
          130          135          140
Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr
          145          150          155          160
Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala
          165          170          175
Asn Arg Leu Gln Asp Ala Ile Ala Lys Gly Arg Gly

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180

185

188

<210> 956
 <211> 132
 <212> Amino acid
 <213> Homo sapiens

<400> 956
 Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly
 1 5 10 15
 Glu Ala Val Thr Glu Glu Ser Pro Ala Pro Pro Asn Glu Ala Thr Pro
 20 25 30
 Thr Ala Ala Pro Pro Thr Leu Pro Pro Thr Thr Val Gly Ala Thr Gly
 35 40 45
 Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala
 50 55 60
 Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr
 65 70 75 80
 Thr Thr Thr Val Ala Thr Thr Thr Thr Thr Thr Ala Ala Ala Thr Thr
 85 90 95
 Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu
 100 105 110
 Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn
 115 120 125
 Ser Lys Trp Ala
 130 132

<210> 957
 <211> 220
 <212> Amino acid
 <213> Homo sapiens

<400> 957
 Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser
 1 5 10 15
 Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr
 20 25 30
 Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala
 35 40 45
 Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala
 50 55 60
 Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr
 65 70 75 80
 Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser
 85 90 95
 Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn
 100 105 110
 Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly
 115 120 125
 Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp
 130 135 140
 Phe Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe
 145 150 155 160
 Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser

				165					170					175					
Asp	Pro	Phe	Ser	Ser	Ser	Ser	Val	Ser	Ser	Lys	Gly	Ser	Asp	Pro	Phe				
			180					185					190						
Gly	Thr	Leu	Asp	Pro	Phe	Gly	Ser	Gly	Ser	Phe	Asn	Ser	Ala	Glu	Gly				
		195					200					205							
Phe	Ala	Asp	Phe	Ser	Thr	Ile	Glu	Gly	Arg	Arg	Gly								
	210					215					220								

<210> 958
 <211> 250
 <212> Amino acid
 <213> Homo sapiens

<400> 958

Arg	Thr	Arg	Gly	Gly	Ser	Gly	Asn	Ser	Ser	Gln	Pro	Ser	Leu	Arg	Glu				
1				5					10					15					
Gly	His	Asp	Lys	Pro	Val	Phe	Asn	Gly	Ala	Gly	Lys	Pro	His	Ser	Ser				
		20					25						30						
Thr	Ser	Ser	Pro	Ser	Val	Pro	Lys	Thr	Ser	Ala	Ser	Arg	Thr	Gln	Lys				
	35					40						45							
Ser	Ala	Val	Glu	His	Lys	Ala	Lys	Lys	Ser	Leu	Ser	His	Pro	Ser	His				
	50				55					60									
Ser	Arg	Pro	Gly	Pro	Met	Val	Thr	Pro	His	Asn	Lys	Ala	Lys	Ser	Pro				
	65				70					75					80				
Gly	Val	Arg	Gln	Pro	Gly	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Gly	Gln	Pro				
			85				90							95					
Ser	Thr	Gly	Val	Ala	Arg	Pro	Thr	Val	Ser	Ser	Gly	Pro	Val	Pro	Arg				
		100				105						110							
Arg	Gln	Asn	Gly	Ser	Ser	Ser	Ser	Gly	Pro	Glu	Arg	Ser	Ile	Ser	Gly				
	115				120							125							
Ser	Lys	Lys	Pro	Thr	Asn	Asp	Ser	Asn	Pro	Ser	Arg	Arg	Thr	Val	Ser				
	130				135						140								
Gly	Thr	Cys	Gly	Pro	Gly	Gln	Pro	Ala	Ser	Ser	Ser	Gly	Gly	Pro	Gly				
	145				150					155				160					
Arg	Pro	Ile	Ser	Gly	Ser	Val	Ser	Ser	Ala	Arg	Pro	Leu	Gly	Ser	Ser				
			165						170					175					
Arg	Gly	Pro	Gly	Arg	Pro	Val	Ser	Ser	Pro	His	Glu	Leu	Arg	Arg	Pro				
		180						185					190						
Val	Ser	Gly	Leu	Gly	Pro	Pro	Gly	Arg	Ser	Val	Ser	Gly	Pro	Gly	Arg				
		195				200						205							
Ser	Ile	Ser	Gly	Ser	Ile	Pro	Ala	Gly	Arg	Thr	Val	Ser	Asn	Ser	Val				
	210				215						220								
Pro	Gly	Arg	Pro	Val	Ser	Ser	Leu	Gly	Pro	Gly	Gln	Thr	Val	Ser	Ser				
	225				230					235					240				
Ser	Gly	Pro	Thr	Ile	Lys	Pro	Lys	Cys	Thr										
			245						250										

<210> 959
 <211> 48
 <212> Amino acid
 <213> Homo sapiens

<400> 959

Arg	Gly	Lys	Gly	Ile	Thr	Pro	Arg	Tyr	His	Leu	Cys	Ile	Ser	Asp	Pro				
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--	--	--	--

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      1           5           10           15
His Asn Leu Lys Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser
      20           25           30
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp
      35           40           45           48

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<210> 960
 <211> 63
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 960
Val Val Ala Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu
      1           5           10           15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly
      20           25           30
Glu Val Ala Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala
      35           40           45
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met
      50           55           60           63

```

<210> 961
 <211> 59
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 961
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr
      1           5           10           15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro
      20           25           30
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val
      35           40           45
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu
      50           55           59

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<210> 962
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 962
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg
      1           5           10           15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu
      20           25           30
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro

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      35              40              45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln
      50              55              60
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg
      65              70              75              80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His
      85              90              95
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser
      100              105              110
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu
      115              120              125
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp
      130              135              140

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<210> 963
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 963
Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln
      1              5              10              15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser
      20              25              30
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys
      35              40              45
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln
      50              55              60
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys
      65              70              75              80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu
      85              90              95
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe
      100              105              110
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr
      115              120              125
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe
      130              135              140
Lys Gly Leu Asn Val Leu Lys Gln Cys
      145              150              153

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<210> 964
 <211> 54
 <212>Amino acid
 <213> Homo sapiens

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      <400> 964
Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala
      1              5              10              15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly
      20              25              30
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys
      35              40              45
Gly Lys Glu Ile Val Lys

```


50

54

<210> 965
 <211> 39
 <212>Amino acid
 <213> Homo sapiens

<400> 965
 Gly Phe Val Phe Leu Pro Gly Pro Met Ser Val Gly Leu Asp Phe Ser
 1 5 10 15
 Leu Pro Gly Met Glu His Val Tyr Gly Ile Pro Glu His Ala Asp Asn
 20 25 30
 Leu Arg Leu Lys Val Thr Glu
 35 39

<210> 966
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 966
 Gly Ser Glu Cys Gln Gly Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser
 1 5 10 15
 Asp Leu Cys Val His Thr Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr
 20 25 30
 Val Gly Leu Ile Ala Val Ala Val Cys Leu Val Leu Leu Leu Val
 35 40 45
 Leu Ile Leu Val Tyr Cys Arg Lys Lys Glu Gly Leu Asp Ser Asp Val
 50 55 60
 Ala Asp Ser Ser Ile Leu Thr Ser Gly Phe Gln Pro Val Ser Ile Lys
 65 70 75 80
 Pro Ser Lys Ala Asp Asn Pro His Leu Leu Thr Ile Gln Pro Asp Leu
 85 90 95
 Ser Thr Thr Thr Thr Tyr Gln Gly Ser Leu Cys Pro Arg Gln Asp
 100 105 110
 Gly Pro Ser Pro Lys Phe Gln Leu Thr Asn Gly His Leu Leu Ser Pro
 115 120 125
 Leu Gly
 130

<210> 967
 <211> 259
 <212>Amino acid
 <213> Homo sapiens

<400> 967
 Leu Ile Tyr Asn Glu Asp Met Ile Cys Trp Ile Glu Ser Arg Glu Ser
 1 5 10 15
 Ser Asn Gln Leu Lys Cys Ile Gln Ile Thr Lys Ala Gly Gly Leu Thr

```

      20      25      30
Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln
      35      40      45
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val
      50      55      60
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr
      65      70      75      80
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro
      85      90      95
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val
      100      105      110
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser
      115      120      125
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu
      130      135      140
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr
      145      150      155      160
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His
      165      170      175
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser
      180      185      190
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile
      195      200      205
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln
      210      215      220
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro
      225      230      235      240
Tyr Gly Met Pro Gly Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser
      245      250      255
Tyr Thr Lys
      259

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<210> 968
 <211> 161
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 968
Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly
      1      5      10      15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln
      20      25      30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser
      35      40      45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn
      50      55      60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala
      65      70      75      80
Ser Val Arg Ala Thr His Pro Ile Pro Ala Ala Cys Gly Ile Tyr Tyr
      85      90      95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile
      100      105      110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp
      115      120      125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser
      130      135      140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val
      145      150      155      160
Ile

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161

<210> 969
 <211> 76
 <212> Amino acid
 <213> Homo sapiens

<400> 969
 Phe Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val
 1 5 10 15
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr
 20 25 30
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro
 35 40 45
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His
 50 55 60
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser
 65 70 75 76

<210> 970
 <211> 267
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (267)
 <223> X = any amino acid or stop code

<400> 970
 Gln Leu Ser Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe
 1 5 10 15
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Tyr Leu Lys Ser Thr Ile
 20 25 30
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val
 35 40 45
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val
 50 55 60
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly
 65 70 75 80
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe
 85 90 95
 Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser
 100 105 110
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser Gln Leu Pro
 115 120 125
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu
 130 135 140
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu
 145 150 155 160
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr
 165 170 175
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys
 180 185 190

Val Gln Thr Val Ala Ile Ile Gly Pro Ile Phe Gly Phe Leu Leu Gly
 195 200 205
 Ser Leu Cys Ala Lys Leu Tyr Val Asp Ile Gly Phe Val Asn Leu Asp
 210 215 220
 His Phe Xaa Val Ser Ala Gln Leu Gly Thr Arg Lys Gly Val Leu Val
 225 230 235 240
 Cys Leu Val Phe Cys Leu Leu Cys Gln Ser Ile Gly Arg Arg Leu Ser
 245 250 255
 Glu Glu His His His Ser Asp Arg Glu Lys Gly
 260 265 267

<210> 971
 <211> 282
 <212> Amino acid
 <213> Homo sapiens

<400> 971
 Gln Pro Ala Gly Arg Val Glu Ala Phe Cys Lys Phe His Met Trp Ala
 1 5 10 15
 Glu Gly Met Thr Ser Leu Met Lys Ala Ala Leu Asp Leu Thr Tyr Pro
 20 25 30
 Ile Thr Ser Met Phe Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser
 35 40 45
 Val Phe Lys Asp Gln Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala
 50 55 60
 Ile Thr Thr Asp Ile Thr Ala Ser Ala Met Arg Val His Thr Asp Gly
 65 70 75 80
 Ser Leu Trp Arg Tyr Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met
 85 90 95
 Pro Pro Leu Cys Asp Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly
 100 105 110
 Tyr Ile Asn Asn Leu Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys
 115 120 125
 Val Val Ile Ala Ile Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr
 130 135 140
 Asn Tyr Gly Asp Ala Leu Ser Gly Trp Trp Leu Leu Trp Lys Arg Trp
 145 150 155 160
 Asn Pro Leu Ala Thr Lys Val Lys Val Leu Asn Met Ala Glu Ile Gln
 165 170 175
 Thr Arg Leu Ala Tyr Val Cys Cys Val Arg Gln Leu Glu Val Val Lys
 180 185 190
 Ser Ser Asp Tyr Cys Glu Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser
 195 200 205
 Thr Leu Asp Phe Gly Lys Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln
 210 215 220
 His Gly Arg Thr Val Phe Asp Ile Trp Gly Arg Ser Gly Val Leu Glu
 225 230 235 240
 Lys Met Leu Arg Asp Gln Gln Gly Pro Ser Lys Lys Pro Ala Ser Ala
 245 250 255
 Val Leu Thr Cys Pro Asn Ala Ser Phe Thr Asp Leu Ala Glu Ile Val
 260 265 270
 Ser Arg Ile Glu Pro Ala Lys Pro Ala Met
 275 280 282

<210> 972
 <211> 167
 <212> Amino acid
 <213> Homo sapiens

<400> 972

Leu	Trp	Val	Ile	Met	Phe	Val	Ser	Tyr	Leu	Ile	Leu	Thr	Leu	Leu	His
1				5					10					15	
Val	Gln	Thr	Ala	Val	Leu	Ala	Arg	Pro	Gly	Gly	Glu	Ser	Ile	Gly	Cys
			20					25					30		
Asp	Asp	Tyr	Leu	Gly	Ser	Asp	Lys	Val	Val	Asp	Lys	Cys	Gly	Val	Cys
		35					40					45			
Gly	Gly	Asp	Asn	Thr	Gly	Cys	Gln	Val	Val	Ser	Gly	Val	Phe	Lys	His
	50					55					60				
Ala	Leu	Thr	Ser	Leu	Gly	Tyr	His	Arg	Val	Val	Glu	Ile	Pro	Glu	Gly
65					70					75				80	
Ala	Thr	Lys	Ile	Asn	Ile	Thr	Glu	Met	Tyr	Lys	Ser	Asn	Asn	Tyr	Leu
			85					90						95	
Ala	Leu	Arg	Ser	Arg	Ser	Gly	Arg	Ser	Ile	Ile	Asn	Gly	Asn	Trp	Ala
			100					105					110		
Ile	Asp	Arg	Pro	Gly	Lys	Tyr	Glu	Gly	Gly	Gly	Thr	Met	Phe	Thr	Tyr
	115						120					125			
Lys	Arg	Pro	Asn	Glu	Ile	Ser	Ser	Thr	Ala	Gly	Glu	Ser	Phe	Leu	Ala
	130					135					140				
Glu	Gly	Pro	Thr	Asn	Glu	Ile	Leu	Asp	Val	Tyr	Val	Ser	Leu	Asp	Val
145					150					155					160
Ser	Gly	Leu	Phe	Phe	Gly	Phe									
				165		167									

<210> 973
 <211> 140
 <212> Amino acid
 <213> Homo sapiens

<400> 973

Ile	Ser	Gly	Gly	Thr	Arg	Ser	Ala	Gly	Pro	Leu	Arg	Arg	Asn	Tyr	Asn
1				5					10					15	
Phe	Ile	Ala	Ala	Val	Val	Glu	Lys	Val	Ala	Pro	Ser	Val	Val	His	Val
			20					25					30		
Gln	Leu	Trp	Gly	Arg	Asn	Gln	Gln	Trp	Ile	Glu	Val	Val	Leu	Gln	Asn
		35				40						45			
Gly	Ala	Arg	Tyr	Glu	Ala	Val	Val	Lys	Asp	Ile	Asp	Leu	Lys	Leu	Asp
	50					55				60					
Leu	Ala	Val	Ile	Lys	Ile	Glu	Ser	Asn	Ala	Glu	Leu	Pro	Val	Leu	Met
65					70					75				80	
Leu	Gly	Arg	Ser	Ser	Asp	Leu	Arg	Ala	Gly	Glu	Phe	Val	Val	Ala	Leu
			85					90						95	
Gly	Ser	Pro	Phe	Ser	Leu	Gln	Asn	Thr	Ala	Thr	Ala	Gly	Ile	Val	Ser
			100					105					110		
Thr	Lys	Gln	Arg	Gly	Gly	Lys	Glu	Leu	Gly	Met	Lys	Asp	Ser	Asp	Met
	115						120					125			
Asp	Tyr	Val	Gln	Ile	Asp	Ala	Thr	Ile	Asn	Tyr	Gly				
	130					135					140				

<210> 974
 <211> 286
 <212> Amino acid
 <213> Homo sapiens

<400> 974

Pro	Arg	Val	Arg	Glu	Leu	Lys	Glu	Ile	Leu	Asp	Arg	Lys	Gly	His	Phe
1				5					10					15	
Ser	Glu	Asn	Glu	Thr	Arg	Trp	Ile	Ile	Gln	Ser	Leu	Ala	Ser	Ala	Ile
			20				25					30			
Ala	Tyr	Leu	His	Asn	Asn	Asp	Ile	Val	His	Arg	Asp	Leu	Lys	Leu	Glu
		35				40					45				
Asn	Ile	Met	Val	Lys	Ser	Ser	Leu	Ile	Asp	Asp	Asn	Asn	Glu	Ile	Asn
	50					55				60					
Leu	Asn	Ile	Lys	Val	Thr	Asp	Phe	Gly	Leu	Ala	Val	Lys	Lys	Gln	Ser
	65				70				75					80	
Arg	Ser	Glu	Ala	Met	Leu	Gln	Ala	Thr	Cys	Gly	Thr	Pro	Ile	Tyr	Met
			85					90						95	
Ala	Pro	Glu	Val	Ile	Ser	Ala	His	Asp	Tyr	Ser	Gln	Gln	Cys	Asp	Ile
		100						105					110		
Trp	Ser	Ile	Gly	Val	Val	Met	Tyr	Met	Leu	Leu	Arg	Gly	Glu	Pro	Pro
		115				120						125			
Phe	Leu	Ala	Ser	Ser	Glu	Glu	Lys	Leu	Phe	Glu	Leu	Ile	Arg	Lys	Gly
	130				135					140					
Glu	Leu	His	Phe	Glu	Asn	Ala	Val	Trp	Asn	Ser	Ile	Ser	Asp	Cys	Ala
	145				150					155				160	
Lys	Ser	Val	Leu	Lys	Gln	Leu	Met	Lys	Val	Asp	Pro	Ala	His	Arg	Ile
			165					170						175	
Thr	Ala	Lys	Glu	Leu	Leu	Asp	Asn	Gln	Trp	Leu	Thr	Gly	Asn	Lys	Leu
		180						185					190		
Ser	Ser	Val	Arg	Pro	Thr	Asn	Val	Leu	Glu	Met	Met	Lys	Glu	Trp	Lys
		195				200						205			
Asn	Asn	Pro	Glu	Ser	Val	Glu	Glu	Asn	Thr	Thr	Glu	Glu	Lys	Asn	Lys
	210					215					220				
Pro	Ser	Thr	Glu	Glu	Lys	Leu	Lys	Ser	Tyr	Gln	Pro	Trp	Gly	Asn	Val
	225				230					235				240	
Pro	Glu	Thr	Asn	Tyr	Thr	Ser	Asp	Glu	Glu	Glu	Glu	Lys	Gln	Val	Gly
			245					250						255	
Arg	Ile	Ile	Ala	Ala	Phe	Leu	Pro	Ser	Val	Lys	Tyr	Pro	His	His	Thr
			260					265					270		
Trp	Asn	Ile	Phe	Leu	Gln	Ile	Cys	Leu	Phe	Val	Val	Ser	Leu		
	275						280					285	286		

<210> 975

<211> 155

<212> Amino acid

<213> Homo sapiens

<400> 975

Leu	Ser	Ile	Ser	Val	Ser	Asp	Val	Ser	Leu	Ser	Asp	Glu	Gly	Gln	Tyr
1				5					10					15	
Thr	Cys	Ser	Leu	Phe	Thr	Met	Pro	Val	Lys	Thr	Ser	Lys	Ala	Tyr	Leu
			20					25					30		
Thr	Val	Leu	Gly	Val	Pro	Glu	Lys	Pro	Gln	Ile	Ser	Gly	Phe	Ser	Ser
		35					40					45			
Pro	Val	Met	Glu	Gly	Asp	Leu	Met	Gln	Leu	Thr	Cys	Lys	Thr	Ser	Gly
	50					55					60				
Ser	Lys	Pro	Ala	Ala	Asp	Ile	Arg	Trp	Phe	Lys	Asn	Asp	Lys	Glu	Ile
	65					70				75				80	

Lys Asp Val Lys Tyr Leu Lys Glu Glu Asp Ala Asn Arg Lys Thr Phe
 85 90 95
 Thr Val Ser Ser Thr Leu Asp Phe Arg Val Asp Arg Ser Asp Asp Gly
 100 105 110
 Val Ala Val Ile Cys Arg Val Asp His Glu Ser Leu Asn Ala Thr Pro
 115 120 125
 Gln Val Ala Met Gln Val Leu Glu Met His Tyr Thr Pro Ser Val Lys
 130 135 140
 Ile Ile Pro Ser Thr Pro Phe Pro Gln Glu Gly
 145 150 155

<210> 976
 <211> 137
 <212> Amino acid
 <213> Homo sapiens

<400> 976
 Tyr Asn Gln Lys Val Asp Leu Phe Ser Leu Gly Ile Ile Phe Phe Glu
 1 5 10 15
 Met Ser Tyr His Pro Met Val Thr Ala Ser Glu Arg Ile Phe Val Leu
 20 25 30
 Asn Gln Leu Arg Asp Pro Thr Ser Pro Lys Phe Pro Glu Asp Phe Asp
 35 40 45
 Asp Gly Glu His Ala Lys Gln Lys Ser Val Ile Ser Trp Leu Leu Asn
 50 55 60
 His Asp Pro Ala Lys Arg Pro Thr Ala Thr Glu Leu Leu Lys Ser Glu
 65 70 75 80
 Leu Leu Pro Pro Pro Gln Met Glu Glu Ser Glu Leu His Glu Val Leu
 85 90 95
 His His Thr Leu Thr Asn Val Asp Gly Lys Ala Tyr Arg Thr Ile Asp
 100 105 110
 Gly Pro Arg Ser Phe Arg Gln Arg Ile Ser Pro Ala Ile Ala Tyr Thr
 115 120 125
 Tyr Asp Ser Asp Ile Leu Lys Gly Asn
 130 135 137

<210> 977
 <211> 246
 <212> Amino acid
 <213> Homo sapiens

<400> 977
 Asp Gln Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu
 1 5 10 15
 Asn Pro Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe
 20 25 30
 Glu Thr Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp
 35 40 45
 Trp Ser Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln
 50 55 60
 Lys Arg Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg
 65 70 75 80
 Thr Cys Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr
 85 90 95

Ala Ala Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala
 100 105 110
 Thr Lys Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser
 115 120 125
 Cys Lys Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp
 130 135 140
 Leu Pro Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr
 145 150 155 160
 Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp
 165 170 175
 Ala Ser Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg
 180 185 190
 Tyr Cys Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala
 195 200 205
 Gln His Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys
 210 215 220
 Gly Ala Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu
 225 230 235 240
 His Tyr Lys Val Asp Val
 245 246

<210> 978
 <211> 203
 <212> Amino acid
 <213> Homo sapiens

<400> 978
 Glu Ser Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys
 1 5 10 15
 Glu Gly Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu
 20 25 30
 Gly Ile Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Gly Glu
 35 40 45
 Asp Val Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser
 50 55 60
 Thr Cys Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu
 65 70 75 80
 Ser Ala Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu
 85 90 95
 Ala Glu Ala Gly Ala Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp
 100 105 110
 Ser Met Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser
 115 120 125
 Ser Ala Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly
 130 135 140
 Lys Asp Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr
 145 150 155 160
 Ser Ala Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp
 165 170 175
 Thr Thr Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val
 180 185 190
 Ser Gly Glu Val Pro Glu Cys Glu Val Ala His
 195 200 203

<210> 979
 <211> 94
 <212> Amino acid
 <213> Homo sapiens

<400> 979

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Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala
 1          5          10          15
Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala
          20          25          30
Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu
          35          40          45
Leu Leu Lys Met Gly Gln His Gly Asn Asn Val Gln Trp Arg Ala Leu
          50          55          60
Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu
          65          70          75          80
Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe
          85          90          94

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<210> 980

<211> 226

<212> Amino acid

<213> Homo sapiens

<400> 980

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Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg
 1          5          10          15
Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile
          20          25          30
Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Gly
          35          40          45
Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His
          50          55          60
Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp
          65          70          75          80
Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp
          85          90          95
Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys
          100          105          110
Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys
          115          120          125
Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu
          130          135          140
Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr
          145          150          155          160
Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
          165          170          175
Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
          180          185          190
Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly
          195          200          205
Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys
          210          215          220
Asp Phe
225 226

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<210> 981

<211> 163

<212>Amino acid
<213> Homo sapiens

<400> 981
 Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser
 1 5 10 15
 Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu Leu
 20 25 30
 Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp
 35 40 45
 Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp
 50 55 60
 His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val
 65 70 75 80
 Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro
 85 90 95
 Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp
 100 105 110
 Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln
 115 120 125
 Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val
 130 135 140
 Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys
 145 150 155 160
 Pro Ser Val
 163

<210> 982
 <211> 327
 <212>Amino acid
 <213> Homo sapiens

<400> 982
 Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp
 1 5 10 15
 Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe
 20 25 30
 Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro
 35 40 45
 Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser
 50 55 60
 Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Gln Leu Leu Glu
 65 70 75 80
 Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln
 85 90 95
 Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp
 100 105 110
 Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val
 115 120 125
 Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr
 130 135 140
 Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr
 145 150 155 160
 Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser
 165 170 175

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Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu
      180      185      190
Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu
      195      200      205
Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Ile Thr
      210      215      220
Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu
      225      230      235      240
Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu
      245      250      255
Ala Tyr Lys Arg Lys Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser
      260      265      270
Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His
      275      280      285
Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr
      290      295      300
Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala
      305      310      315      320
Asp Pro Leu Arg Pro His Gly
      325      327

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<210> 983
<211> 110
<212>Amino acid
<213> Homo sapiens

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<400> 983
Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser
  1      5      10      15
Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr
      20      25      30
Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln
      35      40      45
Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu
      50      55      60
Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn
      65      70      75      80
Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys
      85      90      95
Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro
      100      105      110

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<210> 984
<211> 80
<212>Amino acid
<213> Homo sapiens

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<400> 984
Ala Pro Leu Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly
  1      5      10      15
Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly
      20      25      30
Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr
      35      40      45

```

Val Gln Val Thr Ser Ala Leu Ala Pro Ile Pro Gly Ser Gly Gly Trp
 50 55 60
 Gly Gly Gly Arg Arg Gly Ala Gln Leu Thr Ser Gly Trp Thr Leu His
 65 70 75 80

<210> 985
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

<400> 985
 Pro His Ile Ile Gly Ala Glu Asp Asp Asp Phe Gly Thr Glu His Glu
 1 5 10 15
 Gln Ile Asn Gly Gln Cys Ser Cys Phe Gln Ser Ile Glu Leu Leu Lys
 20 25 30
 Ser Arg Pro Ala His Leu Ala Val Phe Leu Arg His Val Val Ser Gln
 35 40 45
 Phe Asp Pro Ala Thr Leu Leu Cys Tyr Leu Tyr Ser Asp Leu Tyr Lys
 50 55 60
 His Thr Asn Ser Lys Glu Thr Arg Arg Ile Phe Leu Glu Phe His Gln
 65 70 75 80
 Phe Phe Leu Asp Arg Ser Ala His Leu Lys Val Ser Val Pro Asp Glu
 85 90 95
 Met Ser Ala Asp Leu Glu Lys Arg Arg Pro Glu Leu Ile Pro Glu Asp
 100 105 110
 Leu His Arg His Tyr Ile Gln Thr Met Gln Glu Arg Val His Pro Glu
 115 120 125
 Val Gln Arg His Leu Glu Asp Phe Arg Gln Lys Arg Ser Met Gly Leu
 130 135 140
 Thr Leu Ala Glu Ser Glu Leu Thr Lys Leu Asp Ala Glu Arg Asp Lys
 145 150 155 160
 Asp Arg Leu Thr Leu Glu Lys Glu Arg Thr Cys Ala Glu Gln Ile Val
 165 170 175
 Ala Lys Ile Glu Glu Val Leu Met Thr Ala Gln Ala Val Glu Glu Asp
 180 185 190
 Lys Ser Ser Thr Met Gln Tyr Val Ile Leu Met Tyr Met Lys His Leu
 195 200 205
 Gly Val Lys Val Lys Glu Pro Arg Asn Leu Glu His Lys Arg Gly Arg
 210 215 220
 Ile Gly Phe Leu Pro Lys Ile Lys Gln Ser Met
 225 230 235

<210> 986
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

<400> 986
 Ser Pro Gly Thr Gly Arg Gly Pro Gly Pro Thr Ser Phe Val Cys Leu
 1 5 10 15
 Pro Thr Pro Gln Cys Pro Phe Ile Asp Asp Phe Ile Leu Ala Leu His
 20 25 30

```

Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile
      35              40              45
Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro
      50              55              60
Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr
      65              70              75              80
Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val
      85              90              95
Val Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro
      100             105             110
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser
      115             120             125
Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala
      130             135             140

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<210> 987
<211> 242
<212>Amino acid
<213> Homo sapiens

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<400> 987
His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu
  1              5              10              15
Phe Leu Thr Glu Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln
      20              25              30
Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly
      35              40              45
Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys
      50              55              60
Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser
      65              70              75              80
Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala
      85              90              95
Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu
      100             105             110
Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys
      115             120             125
His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val
      130             135             140
Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln
      145             150             155             160
Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys
      165             170             175
Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala
      180             185             190
Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser
      195             200             205
Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg
      210             215             220
Leu His Gly Val Glu Leu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys
      225             230             235             240
Arg Ala
      242

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<210> 988
<211> 154
<212>Amino acid
<213> Homo sapiens

```

<400> 988

```

Cys Cys Arg Trp Ile Asp Cys Phe Ala Leu Tyr Asp Gln Gln Glu Glu
 1      5      10      15
Leu Val Arg His Ile Glu Lys Val His Ile Asp Gln Arg Lys Gly Glu
      20      25      30
Asp Phe Thr Cys Phe Trp Ala Gly Cys Pro Arg Arg Tyr Lys Pro Phe
      35      40      45
Asn Ala Arg Tyr Lys Leu Leu Ile His Met Arg Val His Ser Gly Glu
      50      55      60
Lys Pro Asn Lys Cys Thr Phe Glu Gly Cys Glu Lys Ala Phe Ser Arg
      65      70      75      80
Leu Glu Asn Leu Lys Ile His Leu Arg Ser His Thr Gly Glu Lys Pro
      85      90      95
Tyr Leu Cys Gln His Pro Gly Cys Gln Lys Ala Phe Ser Asn Ser Ser
      100      105      110
Asp Arg Ala Lys His Gln Arg Thr His Leu Asp Thr Lys Pro Tyr Ala
      115      120      125
Cys Gln Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu
      130      135      140
Arg Lys His Val Lys Ala His Ser Ser Lys
145      150      154

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<210> 989

<211> 65

<212>Amino acid

<213> Homo sapiens

<400> 989

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Leu Pro Leu Leu Thr Leu Ser Asp Phe Gly Gly Thr Met Asp Gln
 1      5      10      15
Ser Gly Met Glu Ile Pro Val Thr Leu Ile Ile Lys Ala Pro Asn Gln
      20      25      30
Lys Tyr Ser Asp Gln Thr Ile Ser Cys Phe Leu Asn Trp Thr Val Gly
      35      40      45
Lys Leu Lys Thr His Leu Ser Asn Val Tyr Pro Ser Lys Pro Val Ser
      50      55      60
Val
65

```

<210> 990

<211> 297

<212>Amino acid

<213> Homo sapiens

<400> 990

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Ala Gly Thr Arg Met Cys Val Val Ala Ala Ala Glu Glu Leu Val Cys
 1      5      10      15
Gly Ala Arg Gly Leu Trp Met Arg Arg Thr Arg Arg Pro Arg Phe Val
      20      25      30

```

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn
 35 40 45
 Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr
 50 55 60
 Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr
 65 70 75 80
 His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu
 85 90 95
 Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val
 100 105 110
 Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp
 115 120 125
 His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp
 130 135 140
 Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys
 145 150 155 160
 Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe
 165 170 175
 Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val
 180 185 190
 Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val
 195 200 205
 Gly Met His Ser Leu Gly Glu Glu Val Arg Leu His Leu Asn Ala Glu
 210 215 220
 Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp
 225 230 235 240
 Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu
 245 250 255
 Tyr Leu Gly Lys Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala
 260 265 270
 Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val
 275 280 285
 Asp Pro Gly Glu Lys Cys Tyr Ile Ala
 290 295 297

<210> 991
 <211> 207
 <212> Amino acid
 <213> Homo sapiens

<400> 991
 Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp
 1 5 10 15
 Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly
 20 25 30
 Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala
 35 40 45
 Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp
 50 55 60
 Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg
 65 70 75 80
 Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg
 85 90 95
 Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala
 100 105 110
 Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr
 115 120 125
 Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys
 130 135 140

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val
 145 150 155 160
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser
 165 170 175
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg
 180 185 190
 Gly Phe Gln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu
 195 200 205 207

<210> 992
 <211> 184
 <212> Amino acid
 <213> Homo sapiens

<400> 992
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro
 1 5 10 15
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val
 20 25 30
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp
 35 40 45
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val
 50 55 60
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp
 65 70 75 80
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala
 85 90 95
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg
 100 105 110
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu
 115 120 125
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser
 130 135 140
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val
 145 150 155 160
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly
 165 170 175
 Lys Leu Pro Asp Pro Val Lys Glu
 180 184

<210> 993
 <211> 144
 <212> Amino acid
 <213> Homo sapiens

<400> 993
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly
 1 5 10 15
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro
 20 25 30
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly
 35 40 45
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser
 50 55 60


```

Pro Lys Val Ile Ser Thr Pro Pro Pro Pro Ile Phe Pro Ile Ser Lys
 65              70              75              80
Glu Val Gly Pro Ile Pro Ile Lys His Phe Pro Lys His Val Ala Asn
              85              90              95
Leu His Ala Ser Arg Gly Phe Thr Glu Lys Phe Glu Thr Leu Lys Lys
              100             105             110
Phe Tyr Gln Glu Gly Gln Ser Cys Thr Val Asp Leu Gly Ile Thr Ala
              115             120             125
Asn Ser Ser Asn His Pro Asp Asn Arg His Arg Asn Arg Ser Leu Ile
 130              135              140              144

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<210> 994
<211> 147
<212>Amino acid
<213> Homo sapiens

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<400> 994
Ser Phe Pro Asp Arg Thr Ala Ser Leu Val Leu Leu Ser Val Pro Val
 1              5              10              15
Gly Gln Ala Gly Met Gln Gln Arg Gly Leu Ala Ile Val Ala Leu Ala
              20              25              30
Val Cys Ala Ala Leu His Ala Ser Pro Ala Ile Leu Pro Ile Ala Ser
              35              40              45
Ser Cys Cys Thr Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu
              50              55              60
Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu
 65              70              75              80
Ala Ala Val Ile Leu His Val Lys Arg Arg Arg Ile Cys Val Ser Pro
              85              90              95
His Asn His Thr Val Lys Gln Trp Met Lys Val Gln Ala Ala Lys Lys
              100             105             110
Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys His His Gly Lys Arg
              115             120             125
Asn Ser Asn Arg Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys
 130              135              140
Thr Pro Tyr
145      147

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<210> 995
<211> 245
<212>Amino acid
<213> Homo sapiens

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<400> 995
Phe Glu Gln Pro Gly Asn Pro Gly Asp Pro Arg Val Arg Thr Pro Pro
 1              5              10              15
Pro Trp Gly Pro His Phe Phe Ala Leu Ile Pro Ser Ser Pro Lys Glu
              20              25              30
Val Pro Ala Thr Pro Ser Ser Arg Arg Asp Pro Ile Ala Pro Thr Ala
              35              40              45
Thr Leu Leu Ser Lys Lys Thr Pro Ala Thr Leu Ala Pro Lys Glu Ala
 50              55              60

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```

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala
65          70          75          80
Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala
85          90          95
Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser
100        105        110
Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys
115        120        125
Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly
130        135        140
Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr
145        150        155        160
Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys
165        170        175
Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys
180        185        190
Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu
195        200        205
Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys
210        215        220
Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys
225        230        235        240
Asn Gly Ser Lys Gly
245

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<210> 996
 <211> 25
 <212> Amino acid
 <213> Homo sapiens

```

<400> 996
Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro
1          5          10          15
Val Ile Pro Val Leu Trp Glu Ala Glu
20        25

```

<210> 997
 <211> 56
 <212> Amino acid
 <213> Homo sapiens

```

<400> 997
Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
1          5          10          15
Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
20        25        30
Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu
35        40        45
Phe Leu Lys Pro Leu Leu Leu Leu
50        55        56

```

<210> 998
 <211> 198

<212>Amino acid
<213> Homo sapiens

<400> 998
 Trp Met Arg Ala Pro Met Leu Gln Lys Gln Gln Ala Pro Arg Met Asp
 1 5 10 15
 Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn
 20 25 30
 Asn Gln Glu Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu
 35 40 45
 Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys
 50 55 60
 Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile
 65 70 75 80
 Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu
 85 90 95
 Leu Leu Asn Ala Glu Leu Glu Glu Lys Met Met Gln Glu Ala Glu Lys
 100 105 110
 Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met
 115 120 125
 Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr
 130 135 140
 Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu
 145 150 155 160
 Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys
 165 170 175
 Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu
 180 185 190
 Thr Leu Lys Glu Arg Cys
 195 198

<210> 999
<211> 79
<212>Amino acid
<213> Homo sapiens

<400> 999
 Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu
 1 5 10 15
 Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu
 20 25 30
 Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser
 35 40 45
 Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu
 50 55 60
 Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val
 65 70 75 79

<210> 1000
<211> 206
<212>Amino acid
<213> Homo sapiens

<400> 1000

Val	Thr	Thr	Thr	Thr	His	Ser	Val	Gly	Arg	Gly	His	Glu	Leu	Gln	Leu
1				5				10						15	
Leu	Asn	Glu	Glu	Leu	Arg	Asn	Ile	Glu	Leu	Glu	Cys	Gln	Asn	Ile	Met
		20						25					30		
Gln	Ala	His	Arg	Leu	Gln	Lys	Val	Thr	Asp	Gln	Tyr	Gly	Asp	Ile	Trp
		35					40					45			
Thr	Leu	His	Asp	Gly	Gly	Phe	Arg	Asn	Tyr	Asn	Thr	Ser	Ile	Asp	Met
	50					55					60				
Gln	Arg	Gly	Lys	Leu	Asp	Asp	Ile	Met	Glu	His	Pro	Glu	Lys	Ser	Asp
	65				70					75					80
Lys	Asp	Ser	Ser	Ser	Ala	Tyr	Asn	Thr	Ala	Glu	Ser	Cys	Arg	Ser	Thr
				85					90					95	
Pro	Leu	Thr	Val	Asp	Arg	Ser	Pro	Asp	Ser	Ser	Leu	Pro	Arg	Val	Ile
		100						105					110		
Asn	Leu	Thr	Asn	Lys	Lys	Asn	Leu	Arg	Ser	Thr	Met	Ala	Ala	Thr	Gln
		115					120					125			
Ser	Ser	Ser	Gly	Gln	Ser	Ser	Lys	Glu	Ser	Thr	Ser	Thr	Lys	Ala	Lys
	130					135					140				
Thr	Thr	Glu	Gln	Gly	Cys	Ser	Ala	Glu	Ser	Lys	Glu	Lys	Val	Leu	Glu
	145				150					155					160
Gly	Ser	Lys	Leu	Pro	Asp	Gln	Glu	Lys	Ala	Val	Ser	Glu	His	Ile	Pro
			165				170							175	
Tyr	Leu	Ser	Pro	Tyr	His	Ser	Ser	Ser	Tyr	Arg	Tyr	Ala	Asn	Ile	Pro
			180				185						190		
Ala	His	Ala	Arg	His	Tyr	Gln	Ser	Tyr	Met	Gln	Leu	Ile	Gln		
		195					200					205	206		

<210> 1001
 <211> 138
 <212> Amino acid
 <213> Homo sapiens

<400> 1001

Val	Trp	Gly	Cys	Leu	Ala	Thr	Val	Ser	Thr	His	Lys	Lys	Ile	Gln	Gly
1				5					10					15	
Leu	Pro	Phe	Gly	Asn	Cys	Leu	Pro	Val	Ser	Asp	Gly	Pro	Phe	Asn	Asn
		20						25					30		
Ser	Thr	Gly	Ile	Pro	Phe	Phe	Tyr	Met	Thr	Ala	Lys	Asp	Pro	Val	Val
		35					40					45			
Ala	Asp	Leu	Met	Lys	Asn	Pro	Met	Ala	Ser	Leu	Met	Leu	Pro	Glu	Ser
	50					55					60				
Glu	Gly	Glu	Phe	Cys	Arg	Lys	Asn	Ile	Val	Asp	Pro	Glu	Asp	Pro	Arg
	65				70					75					80
Cys	Val	Gln	Leu	Thr	Leu	Thr	Gly	Gln	Met	Ile	Ala	Val	Ser	Pro	Glu
			85					90						95	
Glu	Val	Glu	Phe	Ala	Lys	Gln	Ala	Met	Phe	Ser	Arg	His	Pro	Gly	Met
			100					105					110		
Arg	Lys	Trp	Pro	Arg	Gln	Tyr	Glu	Trp	Phe	Phe	Met	Lys	Met	Arg	Ile
		115					120					125			
Glu	His	Ile	Trp	Leu	Gln	Lys	Trp	Tyr	Gly						
	130					135			138						

<210> 1002
 <211> 133

<212>Amino acid
<213> Homo sapiens

<400> 1002
Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro
1 5 10 15
Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Gln Lys Leu
20 25 30
Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp
35 40 45
Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu
50 55 60
Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val
65 70 75 80
Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile
85 90 95
Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn
100 105 110
Leu Ala Gly Asn Asn Leu Ile Ala Met Glu Gln Ile Asn Ser Cys Thr
115 120 125
Ala Leu Gln His Leu
130 133

<210> 1003
<211> 276
<212>Amino acid
<213> Homo sapiens

<400> 1003
Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr
1 5 10 15
Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr
20 25 30
Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe
35 40 45
Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His
50 55 60
Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala
65 70 75 80
Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln
85 90 95
Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His
100 105 110
Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile
115 120 125
Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp
130 135 140
Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu
145 150 155 160
Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val
165 170 175
Leu Ser Gln Glu Gly Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala
180 185 190
Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro
195 200 205

Val Leu Lys Thr Ala Leu Pro Glu Gly Leu Gly Pro Tyr Cys Ala Glu
 210 215 220
 Thr His Arg Arg His Thr Leu Phe Cys Gly Thr Leu Ile Leu His Ala
 225 230 235 240
 Arg Ala Tyr Val Gly Pro His Val Leu Ala Val Val Thr Arg Thr Gly
 245 250 255
 Met Ser Arg Glu Ala Gly Leu Glu Arg Asp Pro Gly Ser Ala Pro Leu
 260 265 270
 Lys Arg Trp Ser
 275 276

<210> 1004
 <211> 222
 <212> Amino acid
 <213> Homo sapiens

<400> 1004
 Phe Val Gly Gly Gly Leu His Leu His Leu Cys Leu Leu Leu Cys Phe
 1 5 10 15
 Met Leu Pro Glu Asp Ala Ala Met Ala Val Leu Thr Ala Ser Asn His
 20 25 30
 Val Ser Asn Val Thr Val Asn Tyr Asn Ile Thr Val Glu Arg Met Asn
 35 40 45
 Arg Met Gln Gly Leu Arg Val Ser Thr Val Pro Ala Val Leu Ser Pro
 50 55 60
 Asn Ala Thr Leu Ala Leu Thr Ala Gly Val Leu Val Asp Ser Ala Val
 65 70 75 80
 Glu Val Ala Phe Leu Trp Thr Phe Gly Asp Gly Glu Gln Ala Leu His
 85 90 95
 Gln Phe Gln Pro Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser
 100 105 110
 Val Ala Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala
 115 120 125
 Pro Gly Glu Tyr Val Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn
 130 135 140
 Arg Thr Gln Gln Val Leu Ile Arg Ser Gly Arg Val Pro Ile Val Ser
 145 150 155 160
 Leu Glu Cys Val Ser Cys Lys Ala Gln Ala Val Tyr Glu Val Ser Arg
 165 170 175
 Ser Ser Tyr Val Tyr Leu Glu Gly Arg Cys Leu Asn Cys Ser Ser Gly
 180 185 190
 Ser Lys Arg Gly Arg Trp Ala Ala Arg Thr Phe Ser Asn Lys Thr Leu
 195 200 205
 Val Leu Asp Glu Thr Thr Thr Ser Thr Gly Ser Ala Ser Met
 210 215 220 222

<210> 1005
 <211> 363
 <212> Amino acid
 <213> Homo sapiens

<400> 1005
 Pro Glu Phe Leu Gly Arg Leu Phe Arg Gly Lys Ala Ala Thr Leu His
 1 5 10 15

```

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln
      20      25      30
Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp
      35      40      45
Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn
      50      55      60
Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn
      65      70      75      80
His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr
      85      90      95
Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn
      100      105      110
Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys
      115      120      125
Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn
      130      135      140
Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro
      145      150      155      160
Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro
      165      170      175
Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu
      180      185      190
Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp
      195      200      205
Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu
      210      215      220
Thr Asp Lys Glu Lys Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys
      225      230      235      240
Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met
      245      250      255
His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile
      260      265      270
Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro
      275      280      285
Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val
      290      295      300
Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Lys Arg Arg Ala Pro
      305      310      315      320
Ala Pro Pro Pro Pro Gln Pro Pro Pro Pro Ser Pro Leu Ile Pro Asn
      325      330      335
Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys
      340      345      350
Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe
      355      360      363

```

<210> 1006

<211> 95

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(95)

<223> X = any amino acid or stop code

<400> 1006

```

Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe
  1      5      10      15
Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

```

```

      20      25      30
Ala Pro Pro Leu Pro Ala Pro Phe Phe Phe Tyr Phe Leu Phe Leu Val
      35      40      45
Glu Leu Gly Phe His His Ile Gly Xaa Ala Gly Leu Glu Leu Thr Ser
      50      55      60
Thr Asp Leu Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Met
      65      70      75      80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu
      85      90      95

```

<210> 1007
 <211> 151
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1007
Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu
 1      5      10      15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr
      20      25      30
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu
      35      40      45
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu
      50      55      60
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg
      65      70      75      80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Phe Leu Tyr Pro Gln Thr
      85      90      95
Gln Val Leu Val Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn
      100      105      110
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu
      115      120      125
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu
      130      135      140
Gly Val Thr Gln Phe Ser Pro
      145      150      151

```

<210> 1008
 <211> 64
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(64)
 <223> X = any amino acid or stop code

```

      <400> 1008
Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu
 1      5      10      15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr
      20      25      30
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile
      35      40      45

```


Pro Ser Ser Trp Thr Gly Arg Ile Asn Thr Val Lys Met Thr Ile Leu
 50 55 60 64

<210> 1009
 <211> 60
 <212> Amino acid
 <213> Homo sapiens

<400> 1009
 Val Pro His Pro Leu Gln Ala Ile His Glu Gln Met Asn Cys Lys Glu
 1 5 10 15
 Tyr Gln Glu Asp Leu Ala Leu Arg Ala Gln Asn Asp Ala Ala Ala Arg
 20 25 30
 Arg Pro Ser Glu Met Phe Lys Val Arg Leu Ala Gln Gly Arg Gly Leu
 35 40 45
 Ala Ser Leu Ser Ser Gly Ile Gln Ser Gly Val Gly
 50 55 60

<210> 1010
 <211> 44
 <212> Amino acid
 <213> Homo sapiens

<400> 1010
 Arg Trp Asn Ser Leu Thr Cys Val Val Leu Thr Phe Leu Gly His Arg
 1 5 10 15
 Leu Leu Lys Arg Phe Leu Val Pro Lys Leu Arg Arg Phe Leu Lys Pro
 20 25 30
 Gln Gly His Pro Arg Leu Leu Leu Trp Phe Lys Arg
 35 40 44

<210> 1011
 <211> 219
 <212> Amino acid
 <213> Homo sapiens

<400> 1011
 Tyr Gly Glu Phe Val Thr Tyr Gln Gly Val Ala Val Thr Arg Ser Arg
 1 5 10 15
 Lys Glu Gly Ile Ala His Asn Tyr Lys Asn Glu Thr Glu Trp Arg Ala
 20 25 30
 Asn Ile Asp Thr Val Met Ala Trp Phe Thr Glu Glu Asp Leu Asp Leu
 35 40 45
 Val Thr Leu Tyr Phe Gly Glu Pro Asp Ser Thr Gly His Arg Tyr Gly
 50 55 60
 Pro Glu Ser Pro Glu Arg Arg Glu Met Val Arg Gln Val Asp Arg Thr
 65 70 75 80

```

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg
      85                      90                      95
Leu Asn Leu Ile Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys
      100                      105                      110
Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe
      115                      120                      125
Arg Asp Ile Glu Phe Glu Leu Leu Asp Tyr Gly Pro Asn Gly Met Leu
      130                      135                      140
Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp
      145                      150                      155                      160
Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala
      165                      170                      175
Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser
      180                      185                      190
Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro
      195                      200                      205
Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser
      210                      215                      219

```

<210> 1012
 <211> 89
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1012
Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly
  1      5                      10                      15
Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly
      20                      25                      30
Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu
      35                      40                      45
Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly
      50                      55                      60
Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys
      65                      70                      75                      80
Pro Ser Ser Ser Leu Glu Thr Phe Phe
      85                      89

```

<210> 1013
 <211> 82
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1013
Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln
  1      5                      10                      15
Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Leu Gly Trp Lys Leu Ser
      20                      25                      30
His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe
      35                      40                      45
Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu
      50                      55                      60
Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser
      65                      70                      75                      80

```

Trp Asp
82

<210> 1014
<211> 107
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> X = any amino acid or stop code

<400> 1014
Tyr Cys Phe Cys Phe Asp Leu Leu His Xaa Cys Ile His Arg Asp Val
1 5 10 15
Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys
20 25 30
Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr
35 40 45
Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Pro Val Gly
50 55 60
Asp Thr Gln Tyr Gly Pro Pro Val Asp Val Trp Ala Ile Gly Cys Val
65 70 75 80
Ser Ala Glu Leu Leu Ser Gly Lys Cys Leu Trp Trp Pro Gly Lys Ser
85 90 95
Asp Met Leu Asp Gln Leu Tyr Leu Ile Arg Lys
100 105 107

<210> 1015
<211> 70
<212> Amino acid
<213> Homo sapiens

<400> 1015
Arg Gly Trp Ala Leu Asp Trp Ile Gly Ala Asp Leu Ser Leu His Leu
1 5 10 15
Gln Glu Glu Val Glu Thr Glu Val Ala Trp Glu Glu Cys Gly His Val
20 25 30
Leu Leu Ser Leu Cys Tyr Ser Ser Gln Gln Gly Gly Leu Leu Val Gly
35 40 45
Val Leu Arg Cys Ala His Leu Ala Pro Met Asp Ala Asn Gly Tyr Ser
50 55 60
Asp Pro Phe Val Arg Leu
65 70

<210> 1016
<211> 142
<212> Amino acid
<213> Homo sapiens

<400> 1016
 Gly Gly Ile Leu Ala Met Glu Tyr Ala Pro Gly Gly Thr Leu Ala Glu
 1 5 10 15
 Phe Ile Gln Lys Arg Cys Asn Ser Leu Leu Glu Glu Glu Thr Ile Leu
 20 25 30
 His Phe Phe Val Gln Ile Leu Leu Ala Leu His His Val His Thr His
 35 40 45
 Leu Ile Leu His Arg Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Lys
 50 55 60
 His Arg Met Val Val Lys Ile Gly Asp Phe Gly Ile Ser Lys Ile Leu
 65 70 75 80
 Ser Ser Lys Ser Lys Ala Tyr Thr Val Val Gly Thr Pro Cys Tyr Ile
 85 90 95
 Ser Pro Glu Leu Cys Glu Gly Lys Pro Tyr Asn Gln Lys Ser Asp Ile
 100 105 110
 Trp Ala Leu Gly Cys Val Leu Tyr Glu Leu Ala Ser Leu Lys Arg Ala
 115 120 125
 Phe Glu Ala Ala Asn Leu Pro Ala Leu Val Leu Lys Ile Met
 130 135 140 142

<210> 1017
 <211> 87
 <212>Amino acid
 <213> Homo sapiens

<400> 1017
 Val Gln Cys Gly Gly Ile His Gln Val Ser Gly Ala Val Val Val Ser
 1 5 10 15
 Gly Leu Leu Gln Gly Met Met Gly Leu Leu Gly Ser Pro Gly His Val
 20 25 30
 Phe Pro His Cys Gly Pro Leu Val Leu Ala Pro Ser Leu Val Val Ala
 35 40 45
 Gly Leu Ser Ala His Arg Glu Val Ala Gln Phe Cys Phe Thr His Trp
 50 55 60
 Gly Leu Ala Leu Leu Tyr Val Ser Pro Glu Arg Arg Gly Met Val Pro
 65 70 75 80
 Ser Gly Gly Val Trp Gly Asp
 85 87

<210> 1018
 <211> 160
 <212>Amino acid
 <213> Homo sapiens

<400> 1018
 Pro Arg Met Thr Gly Ser Thr His Ala Ser Ala Pro Ser Tyr Gly Gly
 1 5 10 15
 Ser Cys Arg Asn Asn Leu Phe Tyr Arg Glu Glu Thr Tyr Thr Pro Lys
 20 25 30
 Ala Glu Thr Asp Glu Met Asn Glu Val Glu Thr Ala Pro Ile Pro Glu
 35 40 45
 Glu Asn His Val Trp Leu Gln Pro Arg Val Met Arg Pro Thr Lys Pro

```

      50              55              60
Lys Lys Thr Ser Ala Val Asn Tyr Met Thr Gln Val Val Arg Cys Asp
65              70              75              80
Thr Lys Met Lys Asp Arg Cys Ile Gly Ser Thr Cys Asn Arg Tyr Gln
      85              90              95
Cys Pro Ala Gly Cys Leu Asn His Lys Ala Lys Ile Phe Gly Ser Leu
      100              105              110
Phe Tyr Glu Ser Phe Ala Ser Ile Cys Arg Ala Ala Ile His Tyr Gly
      115              120              125
Ile Leu Asp Asp Lys Gly Gly Leu Val Asp Ile Thr Arg Asn Gly Lys
      130              135              140
Val Pro Phe Phe Val Lys Ser Glu Arg His Gly Val Gln Ser Leu Arg
145              150              155              160

```

<210> 1019
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1019
Val Pro Gln Asn Ile Ile Cys Ala Phe Phe Cys Val Pro Cys Arg Phe
1              5              10              15
Ala Ser Thr Ile Pro Phe Trp Gly Leu Thr Leu His Leu Gln His Leu
      20              25              30
Gly Asn Asn Val Phe Leu Leu Gln Thr Leu Phe Gly Ala Val Thr Leu
      35              40              45
Leu Ala Asn Cys Val Ala Pro Trp Ala Leu Asn His Met Ser Arg Arg
      50              55              60
Leu Ser Gln Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala
65              70              75              80
Ile Ile Phe Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala
      85              90              95
Thr Leu Gly Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala
      100              105              110
Gln Glu Asn Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly
      115              120              125
Ile Thr Gly Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val
      130              135              140
Met Ile Leu Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly
145              150              155              160
Val Phe Ala Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
      165              170              174

```

<210> 1020
 <211> 225
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1020
Val Leu Val Ser Arg Asp His Met Lys Ser Ala Gln Gln Phe Phe Gln
1              5              10              15
Leu Val Gly Gly Ser Ala Ser Glu Cys Asp Thr Ile Pro Gly Arg Gln

```

```

      20      25      30
Cys Met Ala Ser Cys Phe Phe Leu Leu Lys Gln Phe Asp Asp Val Leu
      35      40      45
Ile Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe
      50      55      60
Asn Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu
      65      70      75      80
Gly Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp
      85      90      95
Tyr Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys
      100      105      110
Pro Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu
      115      120      125
Ser Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly
      130      135      140
Gln Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp
      145      150      155      160
Pro Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile
      165      170      175
Phe Gln Met Ile Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu
      180      185      190
Val Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met
      195      200      205
Ile Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu
      210      215      220
Lys
225

```

```

<210> 1021
<211> 118
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1021
Leu Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln
      1      5      10      15
Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp
      20      25      30
Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys
      35      40      45
Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val
      50      55      60
Arg Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu
      65      70      75      80
His Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu
      85      90      95
Arg Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg
      100      105      110
Leu Arg Trp Leu Met Pro
      115      118

```

```

<210> 1022
<211> 178
<212>Amino acid
<213> Homo sapiens

```

<400> 1022
 Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser
 1 5 10 15
 Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr
 20 25 30
 Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His
 35 40 45
 Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His
 50 55 60
 Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys
 65 70 75 80
 Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly
 85 90 95
 Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile
 100 105 110
 Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn
 115 120 125
 Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser
 130 135 140
 Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala
 145 150 155 160
 Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly
 165 170 175
 Lys Thr
 178

<210> 1023
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

<400> 1023
 Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu
 1 5 10 15
 Ala Ser Ala Gly Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val
 20 25 30
 Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu
 35 40 45
 Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln
 50 55 60
 Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu
 65 70 75 80
 Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln
 85 90 95
 Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu
 100 105 110
 Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala
 115 120 125
 Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala
 130 135 140
 Lys Lys
 145 146

<210> 1024
 <211> 39
 <212> Amino acid

<213> Homo sapiens

<400> 1024

```

Ala Met Glu Ile Val His Glu Pro Arg Asp Leu Glu Arg Tyr Met Arg
 1           5           10           15
Glu Ala Val Lys Val Ser Asn Asp Ser Pro Val Leu Leu Asp Arg Phe
          20           25           30
Leu Asn Asp Ala Ile Glu Cys
      35           39

```

<210> 1025

<211> 53

<212>Amino acid

<213> Homo sapiens

<400> 1025

```

Met Leu Ser Pro Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser
 1           5           10           15
Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Val Ala Leu
          20           25           30
Tyr Phe Gly Gln Met Met Leu Glu Gly Tyr Ile Phe Leu Tyr Met Gly
      35           40           45
Arg Glu Gly Phe Lys
      50           53

```

<210> 1026

<211> 365

<212>Amino acid

<213> Homo sapiens

<400> 1026

```

Pro Arg Val Arg Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln
 1           5           10           15
Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val
          20           25           30
Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser
      35           40           45
Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu
      50           55           60
Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp Thr Leu Ser
      65           70           75           80
Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val
          85           90           95
Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile
          100           105           110
Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn
          115           120           125
Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg
          130           135           140
Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly

```


145					150					155				160
Ala	Glu	Gly	Arg	His	Asn	Ser	Thr	Ile	Asp	Val	Gly	Gly	Gln	Lys
				165					170					175
Val	Val	Leu	Pro	Thr	Gly	Asp	Val	Trp	Ser	Arg	Pro	Asp	Gly	Ser
			180					185					190	
Leu	Asn	Lys	Leu	Leu	Ile	Thr	Arg	Ala	Arg	Gln	Asp	Asp	Ala	Gly
		195					200				205			Met
Tyr	Ile	Cys	Leu	Gly	Ala	Asn	Thr	Met	Gly	Tyr	Ser	Phe	Arg	Ser
	210					215				220				Ala
Phe	Leu	Thr	Val	Leu	Pro	Asp	Pro	Lys	Pro	Pro	Gly	Pro	Pro	Val
225					230					235				240
Ser	Ser	Ser	Ser	Ala	Thr	Ser	Leu	Pro	Trp	Pro	Val	Val	Ile	Gly
				245					250					255
Pro	Ala	Gly	Ala	Val	Phe	Ile	Leu	Gly	Thr	Leu	Leu	Leu	Trp	Leu
			260					265					270	Cys
Gln	Ala	Gln	Lys	Lys	Pro	Cys	Thr	Pro	Ala	Pro	Ala	Pro	Pro	Leu
		275					280				285			Pro
Gly	His	Arg	Pro	Pro	Gly	Thr	Ala	Arg	Asp	Arg	Ser	Gly	Asp	Lys
	290					295					300			Asp
Leu	Pro	Ser	Leu	Ala	Ala	Leu	Ser	Ala	Gly	Pro	Gly	Val	Gly	Leu
305					310					315				320
Glu	Glu	His	Gly	Ser	Pro	Ala	Ala	Pro	Gln	His	Leu	Leu	Gly	Pro
			325						330					335
Pro	Val	Ala	Gly	Pro	Lys	Leu	Tyr	Pro	Lys	Leu	Tyr	Thr	Asp	Ile
			340					345					350	Pro
His	His	Thr	His	Thr	His	Thr	Pro	His	Pro	Pro	Ala	Asn		
		355					360					365		

<210> 1027

<211> 30

<212>Amino acid

<213> Homo sapiens

<400> 1027

Asn	Phe	His	Phe	Thr	Gly	Lys	Cys	Leu	Phe	Met	Ser	Gly	Leu	Ser	Glu
1				5					10					15	
Val	Gln	Leu	Thr	His	Met	Asp	Asp	His	Thr	Leu	Pro	Gly	Tyr		
			20					25					30		

<210> 1028

<211> 104

<212>Amino acid

<213> Homo sapiens

<400> 1028

Ser	Pro	Arg	Lys	Arg	Lys	Thr	Arg	His	Ser	Thr	Asn	Pro	Pro	Leu	Glu
1				5					10					15	
Cys	His	Val	Gly	Trp	Val	Met	Asp	Ser	Arg	Asp	His	Gly	Pro	Gly	Thr
			20					25					30		
Ser	Ser	Val	Ser	Thr	Ser	Asn	Ala	Ser	Pro	Ser	Glu	Gly	Ala	Pro	Leu
		35				40					45				
Ala	Gly	Ser	Tyr	Gly	Cys	Thr	Pro	His	Ser	Phe	Pro	Lys	Phe	Gln	His
	50				55					60					
Pro	Ser	His	Glu	Leu	Leu	Lys	Glu	Asn	Gly	Phe	Thr	Gln	Gln	Val	Tyr

```

      65              70              75              80
His Lys Tyr Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile
      85              90              95
Gly Gln Ser Gln Glu Met Asn Thr
      100              104

```

<210> 1029

<211> 119

<212>Amino acid

<213> Homo sapiens

```

      <400> 1029
Pro Gly Ser Gly Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln
  1              5              10              15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro
      20              25              30
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp
      35              40              45
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His
      50              55              60
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu
      65              70              75              80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr
      85              90              95
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys
      100              105              110
Gly Leu Tyr His Lys Met Asn
      115              119

```

<210> 1030

<211> 171

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(171)

<223> X = any amino acid or stop code

```

      <400> 1030
Pro Asp His Arg His Gly Ala Leu Trp Trp Trp Tyr Ser Cys Gly Val
  1              5              10              15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val
      20              25              30
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu
      35              40              45
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro
      50              55              60
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys
      65              70              75              80
Leu Ser Ala Ala Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu
      85              90              95
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys
      100              105              110

```

```

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser
      115              120              125
Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala
      130              135              140
Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys
      145              150              155              160
Leu Asn His Lys Gly Leu Ser Arg Ala His Phe
              165              170 171

```

```

<210> 1031
<211> 198
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1031
Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly
  1              5              10              15
Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr
      20              25              30
Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala
      35              40              45
Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe
      50              55              60
Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu
      65              70              75              80
Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile
      85              90              95
Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg
      100             105             110
Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala
      115             120             125
Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile
      130             135             140
Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile
      145             150             155             160
Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala
      165             170             175
Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln
      180             185             190
Leu Arg Thr Leu Asn Ala
      195             198

```

```

<210> 1032
<211> 138
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 1032
Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

```

```

      1           5           10           15
Met Phe Ser Gly Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu
      20           25           30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu
      35           40           45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln
      50           55           60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val
      65           70           75           80
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys
      85           90           95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro
      100          105          110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp
      115          120          125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *
      130          135          137

```

<210> 1033

<211> 141

<212>Amino acid

<213> Homo sapiens

<400> 1033

```

Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala
      1           5           10           15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val
      20           25           30
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro
      35           40           45
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys
      50           55           60
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met
      65           70           75           80
Met Pro Gly His Gly His Gly His Met Glu His Ser Asn Trp Arg Met
      85           90           95
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr
      100          105          110
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp
      115          120          125
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile
      130          135          140          141

```

<210> 1034

<211> 112

<212>Amino acid

<213> Homo sapiens

<400> 1034

```

Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
      1           5           10           15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
      20           25           30
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu

```

```

      35      40      45
Ala Ala Lys Leu Met Lys Asp Val Ile Ala Glu Pro Tyr Arg Glu Arg
  50      55      60
Leu Leu Pro Gly Phe Arg Gln Ala Arg Gln Ala Val Ala Glu Ile Gly
  65      70      75      80
Ala Val Ala Ser Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
      85      90      95
Cys Asp Lys Pro Glu Thr Ala Gln Arg Val Ala Asp Trp Leu Gly Lys
      100      105      110      112

```

<210> 1035
 <211> 92
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1035
Gly Gln Gln Gln Arg Val Ala Leu Ala Arg Ala Leu Ile Leu Lys Pro
  1      5      10      15
Lys Val Leu Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Asn Leu
      20      25      30
Arg Arg Ser Met Arg Asp Lys Ile Arg Glu Leu Gln Lys Gln Phe Asp
      35      40      45
Ile Thr Ser Leu Tyr Val Thr His Asp Gln Ser Glu Ala Phe Ala Val
      50      55      60
Ser Asp Thr Val Leu Val Met Asn Lys Gly His Ile Met Gln Ile Gly
      65      70      75      80
Ser Pro Gln Asp Leu Arg Val Arg Arg Leu Asn Trp
      85      90      92

```

<210> 1036
 <211> 51
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1036
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys
  1      5      10      15
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Arg Val Ala Ile Ala
      20      25      30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr
      35      40      45
Ser Ala Leu
      50      51

```

<210> 1037
 <211> 72
 <212>Amino acid
 <213> Homo sapiens

<400> 1037

```

Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn
 1           5           10           15
Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp
          20          25          30
Ile Phe Ser Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly
          35          40          45
Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu
          50          55          60
Leu Ala Gly Tyr Tyr Glu Gly Trp
 65           70           72

```

<210> 1038

<211> 188

<212>Amino acid

<213> Homo sapiens

<400> 1038

```

Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp
 1           5           10           15
Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp
          20          25          30
His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val
          35          40          45
Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met
          50          55          60
Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile
          65          70          75          80
Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile
          85          90          95
Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu
          100         105         110
Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly
          115         120         125
Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr
          130         135         140
Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp
          145         150         155         160
Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys
          165         170         175
Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile
          180         185         188

```

<210> 1039

<211> 122

<212>Amino acid

<213> Homo sapiens

<400> 1039

```

Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg
 1           5           10           15
Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

```

```

      20      25      30
Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly Ala Trp Thr Asp Val
      35      40      45
Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln Thr Asp Val Phe Met
      50      55      60
Thr Gln Arg Ala Thr Gly Val Ala Thr Tyr Arg Asn Asn Asp Phe Phe
      65      70      75      80
Gly Leu Val Asp Gly Leu Asn Phe Ala Ala Gln Tyr Gln Gly Lys Asn
      85      90      95
Asp Arg Ser Asp Phe Asp Asn Tyr Thr Glu Gly Asn Gly His Gly Phe
      100      105      110
Gly Phe Ser Ala Thr Tyr Glu Tyr Glu Gly
      115      120      122

```

<210> 1040
 <211> 65
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1040
Asp Thr Tyr Ser Val Ser Ile Pro Leu Gly Ala Thr Ile Asn Met Ala
  1      5      10      15
Gly Ala Ala Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val Asn Thr
      20      25      30
Leu Gly Ile Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val
      35      40      45
Ala Ser Leu Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu
      50      55      60
Leu
      65

```

<210> 1041
 <211> 46
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1041
Ala Asn Ala Gln Gln Gly Leu Pro Ser Gly Ile Thr Leu Lys Leu Asn
  1      5      10      15
Asn Leu Val Asp Lys Gly Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser
      20      25      30
Ser Gly Val Pro Val Asn Leu Leu Val Arg Gly Thr Cys Ser
      35      40      45      46

```

<210> 1042
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

```
<210> 1043
<211> 133
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1044
<211> 115
<212> Amino acid
<213> Homo sapiens
```

571


```

      1           5           10           15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp
      20           25           30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu
      35           40           45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn
      50           55           60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp
      65           70           75           80
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp
      85           90           95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu
      100           105           110
Ala Val Gly
      115

```

```

<210> 1045
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1045
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val
      1           5           10           15
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe
      20           25           30
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile
      35           40           45
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile
      50           55           60
Thr Leu Glu Asp Asn
      65           69

```

```

<210> 1046
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1046
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala Gln
      1           5           10           15
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser
      20           25           30
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu
      35           40           45
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val
      50           55           60
Ala Asp Ala Leu Gln
      65           69

```

```

<210> 1047
<211> 43
<212>Amino acid

```

<213> Homo sapiens

<400> 1047

```

Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr
 1             5             10             15
Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro
             20             25             30
Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val
             35             40             43

```

<210> 1048

<211> 77

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(77)

<223> X = any amino acid or stop code

<400> 1048

```

Xaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln
 1             5             10             15
Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser
             20             25             30
Ala Leu Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala
             35             40             45
Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu
             50             55             60
Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa *
             65             70             75             76

```

<210> 1049

<211> 79

<212>Amino acid

<213> Homo sapiens

<400> 1049

```

Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val
 1             5             10             15
Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe
             20             25             30
Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp
             35             40             45
Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro
             50             55             60
Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr
             65             70             75             79

```

<210> 1050
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

<400> 1050
 Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp
 1 5 10 15
 Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly
 20 25 30
 Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn
 35 40 45
 Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr
 50 55 60
 Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys
 65 70 75 80
 Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly
 85 90 95
 Pro Arg Ile
 99

<210> 1051
 <211> 114
 <212>Amino acid
 <213> Homo sapiens

<400> 1051
 Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln
 1 5 10 15
 Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro
 20 25 30
 Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp
 35 40 45
 Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val
 50 55 60
 Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala
 65 70 75 80
 Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys
 85 90 95
 Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys
 100 105 110
 Glu Lys
 114

<210> 1052
 <211> 210
 <212>Amino acid
 <213> Homo sapiens

<400> 1052

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly
 1 5 10 15
 Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu
 20 25 30
 Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser
 35 40 45
 Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg
 50 55 60
 Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val
 65 70 75 80
 Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu
 85 90 95
 Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr
 100 105 110
 Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His
 115 120 125
 His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln
 130 135 140
 Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu
 145 150 155 160
 Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val
 165 170 175
 Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala
 180 185 190
 Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg
 195 200 205
 Leu Leu
 210

<210> 1053

<211> 100

<212>Amino acid

<213> Homo sapiens

<400> 1053

Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly
 1 5 10 15
 Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu
 20 25 30
 Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser
 35 40 45
 Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu
 50 55 60
 Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser
 65 70 75 80
 His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp
 85 90 95
 Lys Arg Leu Gln
 100

<210> 1054

<211> 194

<212>Amino acid

<213> Homo sapiens

```

<400> 1054
Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Phe Leu Arg Trp Ser Phe
 1          5          10          15
Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu
 20          25          30
Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu
 35          40          45
Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe
 50          55          60
Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu
 65          70          75          80
Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile
 85          90          95
Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Phe Phe Leu Arg Trp
100          105          110
Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly
115          120          125
Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe
130          135          140
Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys
145          150          155          160
Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser
165          170          175
Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Gly Ala Glu Thr Val Gln
180          185          190
Gly Leu
194

```

```

<210> 1055
<211> 351
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(351)
<223> X = any amino acid or stop code

```

```

<400> 1055
Met Gly Asn Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val
 1          5          10          15
Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu
 20          25          30
Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys
 35          40          45
Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys
 50          55          60
Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val
 65          70          75          80
Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu
 85          90          95
Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys
100          105          110
Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu
115          120          125
Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala
130          135          140
Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

```

```

145          150          155          160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
          165          170          175
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
          180          185          190
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
          195          200          205
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
          210          215          220
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe
225          230          235          240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val
          245          250          255
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn
          260          265          270
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly
          275          280          285
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
          290          295          300
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
305          310          315          320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Ile
          325          330          335
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe
          340          345          350 351

```

<210> 1056

<211> 136

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(136)

<223> X = any amino acid or stop code

<400> 1056

```

Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
1          5          10          15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
          20          25          30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
          35          40          45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
          50          55          60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
65          70          75          80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
          85          90          95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
          100          105          110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
          115          120          125
Leu Thr Thr Ser Thr Ser Thr Phe
          130          135 136

```

<210> 1057

<211> 79

<212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(79)
 <223> X = any amino acid or stop code

<400> 1057
 Thr Phe His Ser Ser Leu Glu Lys Asn Ile Leu Gln Pro Cys Arg Xaa
 1 5 10 15
 Arg Arg Ala Ile Cys Leu Pro Leu Leu Xaa Pro Ser Val Pro Leu
 20 25 30
 Leu Ala Pro Gln Tyr Phe Ser Asp Leu Arg Asn Ser Ile Val Asn Ser
 35 40 45
 Gln Pro Pro Glu Lys Gln Gln Ala Met His Leu Cys Phe Glu Asn Leu
 50 55 60
 Met Glu Gly Ile Glu Arg Asn Leu Leu Thr Lys Asn Arg Asp Arg
 65 70 75 79

<210> 1058
 <211> 458
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(458)
 <223> X = any amino acid or stop code

<400> 1058
 Gly Thr Ser Gly Val Gln Gln Glu Ile Ser Arg Leu Thr Asn Glu Asn
 1 5 10 15
 Leu Asp Leu Lys Glu Leu Val Glu Lys Leu Glu Lys Asn Glu Arg Lys
 20 25 30
 Leu Lys Lys Gln Leu Lys Ile Tyr Met Lys Lys Ala Gln Asp Leu Glu
 35 40 45
 Ala Ala Gln Ala Leu Ala Gln Ser Glu Arg Lys Arg His Glu Leu Asn
 50 55 60
 Arg Gln Val Thr Val Gln Arg Lys Glu Lys Asp Phe Gln Gly Met Leu
 65 70 75 80
 Glu Tyr His Lys Glu Asp Glu Ala Leu Leu Ile Arg Asn Leu Val Thr
 85 90 95
 Asp Leu Lys Pro Gln Met Leu Ser Gly Thr Val Pro Cys Leu Pro Ala
 100 105 110
 Tyr Ile Leu Tyr Met Cys Ile Arg His Ala Asp Tyr Thr Asn Asp Asp
 115 120 125
 Leu Lys Val His Ser Leu Leu Thr Ser Thr Ile Asn Gly Ile Lys Lys
 130 135 140
 Val Leu Lys Lys His Asn Asp Asp Phe Glu Met Thr Ser Phe Trp Leu
 145 150 155 160
 Ser Asn Thr Cys Arg Leu Leu His Cys Leu Lys Gln Tyr Ser Gly Asp
 165 170 175
 Glu Gly Phe Met Thr Gln Asn Thr Ala Lys Gln Asn Glu His Cys Leu
 180 185 190

```

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser
    195                200                205
Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln
    210                215                220
Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu
    225                230                235                240
Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala
    245                250                255
Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn
    260                265                270
Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile
    275                280                285
Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu
    290                295                300
Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met
    305                310                315                320
Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg
    325                330                335
Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln
    340                345                350
Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu
    355                360                365
Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys
    370                375                380
Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr
    385                390                395                400
Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp
    405                410                415
Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe
    420                425                430
Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala
    435                440                445
Cys Leu Asn Leu Glu Phe Leu Asn Glu Val
    450                455                458

```

<210> 1059

<211> 82

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(82)

<223> X = any amino acid or stop code

<400> 1059

```

His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro
  1          5          10          15
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu
    20          25          30
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp
    35          40          45
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro
    50          55          60
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser
    65          70          75          80
Ser Asn
    82

```


<210> 1060
 <211> 277
 <212>Amino acid
 <213> Homo sapiens

<400> 1060
 Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr
 1 5 10 15
 Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys
 20 25 30
 Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu
 35 40 45
 Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His
 50 55 60
 Lys Lys Asn Lys Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly
 65 70 75 80
 Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln
 85 90 95
 Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala
 100 105 110
 Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala
 115 120 125
 Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His
 130 135 140
 Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr
 145 150 155 160
 Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys
 165 170 175
 Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys
 180 185 190
 Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn
 195 200 205
 Pro Lys Gly Leu Tyr Ala Asp Gly Gly Gly Cys Lys Leu Cys Gly Ser
 210 215 220
 Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg
 225 230 235 240
 Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu
 245 250 255
 Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro
 260 265 270
 Lys Val Val Asn Phe
 275 277

<210> 1061
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(95)
 <223> X = any amino acid or stop code

<400> 1061

```

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val
 1           5           10           15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe
           20           25           30
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
           35           40           45
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn
 50           55           60
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser
 65           70           75           80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly
           85           90           95

```

<210> 1062

<211> 259

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1062

```

Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro
 1           5           10           15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile
           20           25           30
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly
           35           40           45
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro
 50           55           60
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly
 65           70           75           80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn
           85           90           95
Tyr Ile Pro Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met
           100           105           110
Ala Gly Arg Glu Gly Arg Pro Ser Leu Leu Pro Lys Pro Gly Lys
           115           120           125
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala
           130           135           140
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala
           145           150           155           160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser
           165           170           175
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro
           180           185           190
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn
           195           200           205
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys
           210           215           220
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro
           225           230           235           240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile
           245           250           255
Ser Gln Leu
           259

```

<210> 1063

<211> 498

<212> Amino acid

<213> Homo sapiens

<400> 1063

Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu
 1 5 10 15
 His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met
 20 25 30
 Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile
 35 40 45
 Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala
 50 55 60
 Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu
 65 70 75 80
 Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val
 85 90 95
 Phe Ala Leu Tyr Leu Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met
 100 105 110
 Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly
 115 120 125
 Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala
 130 135 140
 Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu
 145 150 155 160
 Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr
 165 170 175
 Asn Val Glu Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met
 180 185 190
 Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu
 195 200 205
 Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His
 210 215 220
 Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu
 225 230 235 240
 Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro
 245 250 255
 Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala
 260 265 270
 Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser
 275 280 285
 Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr
 290 295 300
 Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln
 305 310 315 320
 Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp
 325 330 335
 Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro
 340 345 350
 Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser
 355 360 365
 Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met
 370 375 380
 Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser
 385 390 395 400
 Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly
 405 410 415
 Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

```

          420          425          430
Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe
          435          440          445
Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys
          450          455          460
Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val
465          470          475          480
Gly Pro Arg Gly Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser
          485          490          495
Gly Arg
498

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<210> 1064

<211> 374

<212>Amino acid

<213> Homo sapiens

```

<400> 1064
Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro
 1          5          10          15
Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser
          20          25          30
Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly
          35          40          45
Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu
          50          55          60
Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser
          65          70          75          80
Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile
          85          90          95
Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr
          100          105          110
Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala
          115          120          125
Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr
          130          135          140
Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp
          145          150          155          160
Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp
          165          170          175
Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu
          180          185          190
Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val
          195          200          205
Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile
          210          215          220
Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val
          225          230          235          240
Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr
          245          250          255
Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys
          260          265          270
Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu
          275          280          285
Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys
          290          295          300
Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser
          305          310          315          320
Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys

```

[illegible]

```
<210> 1065
<211> 278
<212> Amino acid
<213> Homo sapiens
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[illegible]

```
<210> 1066
<211> 502
<212>Amino acid
<213> Homo sapiens
```

```
<220>
<221> misc feature
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<222> (1)...(502)

<223> X = any amino acid or stop code

<400> 1066

```

Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp
 1           5           10           15
His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys
      20           25           30
Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala
      35           40           45
Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln
      50           55           60
Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu
      65           70           75           80
Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His
      85           90           95
Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly
      100          105          110
Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys
      115          120          125
Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu
      130          135          140
Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg
      145          150          155          160
Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys
      165          170          175
Thr His Leu Leu Gln Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg
      180          185          190
Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala
      195          200          205
Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala
      210          215          220
Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu
      225          230          235          240
Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly
      245          250          255
Leu Leu Arg Glu Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile
      260          265          270
Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu
      275          280          285
Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn
      290          295          300
Ser Lys Leu Lys Gln Ile Glu Lys Glu Tyr Thr Gln Lys Leu Ala Lys
      305          310          315          320
Ser Ser Gln Ile Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys
      325          330          335
Glu Glu Asn Ser Gln Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp
      340          345          350
Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn
      355          360          365
Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn
      370          375          380
Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser
      385          390          395          400
Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys
      405          410          415
Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser
      420          425          430
Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu
      435          440          445

```

Gln Glu Glu Arg Asp Tyr Ile Ser Arg Gln Lys Val Gln Pro Ile Ser
 450 455 460
 Arg Xaa Leu His Glu Arg Met Gln Arg Met Arg Ile Ser Arg Leu Cys
 465 470 475 480
 Cys Gly Thr Ser Ser Ser Arg Phe Glu Asp Leu Asp Ile Val Asn Cys
 485 490 495
 Glu Ile Ser Gly Ile Phe
 500 502

<210> 1067

<211> 301

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(301)

<223> X = any amino acid or stop code

<400> 1067

Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys
 1 5 10 15
 Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe
 20 25 30
 Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr
 35 40 45
 Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp
 50 55 60
 Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser
 65 70 75 80
 Thr Met Leu Lys Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile
 85 90 95
 Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His
 100 105 110
 Val Glu Gln Leu Asp Leu Asn Val Gln Cys Leu Trp Glu Leu Ala Gly
 115 120 125
 His Ala Ser Phe Pro Gly Arg Pro Glu Glu Glu Tyr Arg His Gln Leu
 130 135 140
 Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Ala Met Arg Pro Leu Cys
 145 150 155 160
 Gln Pro Val Leu Gly Ala Arg Lys Lys Pro Lys Trp Pro Phe Ala Gln
 165 170 175
 Met Asp Tyr Cys Pro Ala Pro Thr Phe Tyr Ile Leu Asp Glu Pro Thr
 180 185 190
 Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys Leu
 195 200 205
 Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa Ser
 210 215 220
 Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly Gly
 225 230 235 240
 Gly Val Thr Arg Val Glu Arg Lys Asp Phe Asp Gln Tyr Arg Ala Leu
 245 250 255
 Leu Gln Gly Thr Val Ser Ala Arg Glu Gly Phe Pro Leu Gly Pro Pro
 260 265 270
 Arg Leu Lys Asp Ser Pro Arg Asp Met Gly Leu Val Ser Gln Thr Pro
 275 280 285
 Trp Gly His His Val Gly Tyr Pro Leu Pro Gly Arg Gly
 290 295 300 301

<210> 1068
 <211> 215
 <212>Amino acid
 <213> Homo sapiens

<400> 1068
 Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala
 1 5 10 15
 Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr
 20 25 30
 Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn
 35 40 45
 Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp
 50 55 60
 Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr
 65 70 75 80
 Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp
 85 90 95
 Ser Tyr Glu Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser
 100 105 110
 Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu
 115 120 125
 Gln Ser Val His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg
 130 135 140
 Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala
 145 150 155 160
 Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala
 165 170 175
 Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu
 180 185 190
 Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu
 195 200 205
 Glu Lys Glu Glu Ser Lys Ser
 210 215

<210> 1069
 <211> 274
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(274)
 <223> X = any amino acid or stop code

<400> 1069
 Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala
 1 5 10 15
 Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln
 20 25 30
 Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg
 35 40 45
 Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp
 50 55 60

Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu
 65 70 75 80
 Pro Ser Tyr Ile Ser Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa
 85 90 95
 Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys
 100 105 110
 Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe
 115 120 125
 Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser
 130 135 140
 Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly
 145 150 155 160
 Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val
 165 170 175
 Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn
 180 185 190
 Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp
 195 200 205
 Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val
 210 215 220
 Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu
 225 230 235 240
 Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Asp Val Pro Asp Gln
 245 250 255
 Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro
 260 265 270
 His Ser
 274

<210> 1070

<211> 368

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(368)

<223> X = any amino acid or stop code

<400> 1070

Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
 1 5 10 15
 Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
 20 25 30
 Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
 35 40 45
 Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
 50 55 60
 Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
 65 70 75 80
 Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
 85 90 95
 Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
 100 105 110
 Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
 115 120 125
 Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
 130 135 140
 Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn

145					150					155				160
Thr	Val	Ala	Gln	Val	Leu	Lys	Lys	Leu	Ala	Val	Phe	Asp	Thr	Trp
				165						170				175
Ser	Leu	Ala	Val	His	Ile	Ala	Met	Asp	Asn	Thr	Val	Val	Met	Glu
				180				185					190	
Ile	Arg	Arg	Leu	Cys	Arg	Thr	Ser	Val	Pro	Cys	Ala	Gly	Ala	Thr
			195				200					205		
Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys	Asn	Gly	Phe	Pro	Ala	Gly
	210					215					220			
Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp	Arg	Pro	Leu	Val	Leu	Ile
225					230					235				240
Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile	Asn	Glu	Ala	Tyr	Val	Glu
				245					250					255
Leu	Lys	His	Cys	Phe	Met	Met	Pro	Gln	Ser	Leu	Gly	Val	Ile	Gly
			260					265				270		
Lys	Pro	Asn	Ser	Ala	His	Tyr	Phe	Ile	Gly	Xaa	Val	Gly	Glu	Glu
		275					280					285		
Ile	Tyr	Leu	Asp	Pro	His	Thr	Thr	Gln	Pro	Ala	Val	Glu	Pro	Thr
	290					295					300			
Gly	Cys	Phe	Ile	Pro	Asp	Glu	Ser	Phe	His	Cys	Gln	His	Pro	Pro
305					310					315				320
Arg	Met	Ser	Ile	Ala	Glu	Leu	Asp	Pro	Ser	Ile	Ala	Val	Val	Arg
				325					330					335
Gly	His	Leu	Ser	Thr	Gln	Ala	Phe	Gly	Ala	Glu	Cys	Cys	Leu	Gly
			340					345				350		
Thr	Arg	Lys	Thr	Phe	Gly	Phe	Leu	Arg	Phe	Phe	Phe	Ser	Met	Leu
		355					360					365		368

<210> 1071

<211> 81

<212>Amino acid

<213> Homo sapiens

<400> 1071

Ala	Leu	Cys	Val	Val	Pro	Phe	Asn	Thr	Phe	His	Asn	Asp	Phe	Leu	Leu
1				5					10					15	
Leu	Asp	Lys	Glu	Gly	Thr	Leu	Asp	Pro	Val	Met	Asp	Ser	Phe	Ser	Thr
			20					25					30		
His	Trp	Thr	Thr	Ile	Gly	Pro	Ala	Asp	Met	Phe	Phe	Ser	Phe	Arg	Gln
		35				40						45			
His	Tyr	Lys	Asn	Phe	Lys	Ser	His	Gly	Thr	Asn	Pro	Ser	Lys	Ser	Val
	50					55					60				
Trp	Ala	His	Ala	Thr	Cys	Gln	Ser	Cys	Ala	Phe	Pro	Asn	Leu	Leu	Gly
65					70					75					80
Trp															
81															

<210> 1072

<211> 494

<212>Amino acid

<213> Homo sapiens

<400> 1072

Thr	Arg	Leu	Ala	Glu	Phe	Gly	Thr	Arg	Asp	Pro	Cys	Ala	Gln	Ala	Pro
1				5					10					15	
Cys	Glu	Gln	Gln	Cys	Glu	Pro	Gly	Gly	Pro	Gln	Gly	Tyr	Ser	Cys	His
		20						25					30		
Cys	Arg	Leu	Gly	Phe	Arg	Pro	Ala	Glu	Asp	Asp	Pro	His	Arg	Cys	Val
		35					40					45			
Asp	Thr	Asp	Glu	Cys	Gln	Ile	Ala	Gly	Val	Cys	Gln	Gln	Met	Cys	Val
	50					55					60				
Asn	Tyr	Val	Gly	Gly	Phe	Glu	Cys	Tyr	Cys	Ser	Glu	Gly	His	Glu	Leu
	65				70					75				80	
Glu	Ala	Asp	Gly	Ile	Ser	Cys	Ser	Pro	Ala	Gly	Ala	Met	Gly	Ala	Gln
				85					90					95	
Ala	Ser	Gln	Asp	Leu	Gly	Asp	Glu	Leu	Leu	Asp	Asp	Gly	Glu	Asp	Glu
		100						105					110		
Glu	Asp	Glu	Asp	Glu	Ala	Trp	Lys	Ala	Phe	Asn	Gly	Gly	Trp	Thr	Glu
	115						120					125			
Met	Pro	Gly	Ile	Leu	Trp	Met	Glu	Pro	Thr	Gln	Pro	Pro	Asp	Phe	Ala
	130					135					140				
Leu	Ala	Tyr	Arg	Pro	Ser	Phe	Pro	Glu	Asp	Arg	Glu	Pro	Gln	Ile	Pro
	145				150					155				160	
Tyr	Pro	Glu	Pro	Thr	Trp	Pro	Pro	Pro	Leu	Ser	Ala	Pro	Arg	Val	Pro
			165						170					175	
Tyr	His	Ser	Ser	Val	Leu	Ser	Val	Thr	Arg	Pro	Val	Val	Val	Ser	Ala
			180					185					190		
Thr	His	Pro	Thr	Leu	Pro	Ser	Ala	His	Gln	Pro	Pro	Val	Ile	Pro	Ala
	195						200					205			
Thr	His	Pro	Ala	Leu	Ser	Arg	Asp	His	Gln	Ile	Pro	Val	Ile	Ala	Ala
	210					215					220				
Asn	Tyr	Pro	Asp	Leu	Pro	Ser	Ala	Tyr	Gln	Pro	Gly	Ile	Leu	Ser	Val
	225			230						235				240	
Ser	His	Ser	Ala	Gln	Pro	Pro	Ala	His	Gln	Pro	Pro	Met	Ile	Ser	Thr
			245						250				255		
Lys	Tyr	Pro	Glu	Leu	Phe	Pro	Ala	His	Gln	Ser	Pro	Met	Phe	Pro	Asp
		260						265					270		
Thr	Arg	Val	Ala	Gly	Thr	Gln	Thr	Thr	Thr	His	Leu	Pro	Gly	Ile	Pro
	275					280						285			
Pro	Asn	His	Ala	Pro	Leu	Val	Thr	Thr	Leu	Gly	Ala	Gln	Leu	Pro	Pro
	290					295					300				
Gln	Ala	Pro	Asp	Ala	Leu	Val	Leu	Arg	Thr	Gln	Ala	Thr	Gln	Leu	Pro
	305				310					315				320	
Ile	Ile	Pro	Thr	Ala	Gln	Pro	Ser	Leu	Thr	Thr	Thr	Ser	Arg	Ser	Pro
			325						330				335		
Val	Ser	Pro	Ala	His	Gln	Ile	Ser	Val	Pro	Ala	Ala	Thr	Gln	Pro	Ala
		340						345				350			
Ala	Leu	Pro	Thr	Leu	Leu	Pro	Ser	Gln	Ser	Pro	Thr	Asn	Gln	Thr	Ser
	355					360						365			
Pro	Ile	Ser	Pro	Thr	His	Pro	His	Ser	Lys	Ala	Pro	Gln	Ile	Pro	Arg
	370					375					380				
Glu	Asp	Gly	Pro	Ser	Pro	Lys	Leu	Ala	Leu	Trp	Leu	Pro	Ser	Pro	Ala
	385				390					395				400	
Pro	Thr	Ala	Ala	Pro	Thr	Ala	Leu	Gly	Glu	Ala	Gly	Leu	Ala	Glu	His
			405						410					415	
Ser	Gln	Arg	Asp	Asp	Arg	Trp	Leu	Leu	Val	Ala	Leu	Leu	Val	Pro	Thr
		420					425					430			
Cys	Val	Phe	Leu	Val	Val	Leu	Leu	Ala	Leu	Gly	Ile	Val	Tyr	Cys	Thr
	435					440						445			
Arg	Cys	Gly	Pro	His	Ala	Pro	Asn	Lys	Arg	Ile	Thr	Asp	Cys	Tyr	Arg
	450					455					460				
Trp	Val	Ile	His	Ala	Gly	Ser	Lys	Ser	Pro	Thr	Glu	Pro	Met	Pro	Pro
	465				470					475				480	
Arg	Gly	Ser	Leu	Thr	Gly	Val	Gln	Thr	Cys	Arg	Thr	Ser	Val		
			485						490				494		

<210> 1073
 <211> 468
 <212> Amino acid
 <213> Homo sapiens

<400> 1073
 Leu Arg Val Arg Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg
 1 5 10 15
 Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro
 20 25 30
 Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln
 35 40 45
 Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu
 50 55 60
 Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu
 65 70 75 80
 Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala
 85 90 95
 Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala
 100 105 110
 His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly
 115 120 125
 Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val
 130 135 140
 Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp
 145 150 155 160
 Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu
 165 170 175
 Phe Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp
 180 185 190
 Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu
 195 200 205
 His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp
 210 215 220
 Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr
 225 230 235 240
 Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val
 245 250 255
 Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln
 260 265 270
 Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg
 275 280 285
 Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met
 290 295 300
 Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp
 305 310 315 320
 Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro
 325 330 335
 Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp
 340 345 350
 Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys
 355 360 365
 Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro
 370 375 380
 Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala
 385 390 395 400
 Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met
 405 410 415
 Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met

420 425 430
 Cys Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile
 435 440 445
 Val Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys
 450 455 460
 Thr Tyr Thr Val
 465 468

<210> 1074
 <211> 288
 <212> Amino acid
 <213> Homo sapiens

<400> 1074
 Val Val Glu Phe Ala Phe Gln Leu Ser Ser Val Ser Val Cys Leu Thr
 1 5 10 15
 Val Ser Phe Gly Trp Gln Leu Gly Thr Val Ser Ser Cys Leu Ser Arg
 20 25 30
 Asp Trp Phe Leu Lys Gly Asn Leu Leu Ile Ile Ile Val Ser Val Leu
 35 40 45
 Ile Ile Leu Pro Leu Ala Leu Met Lys His Leu Gly Tyr Leu Gly Tyr
 50 55 60
 Thr Ser Gly Leu Ser Leu Thr Cys Met Leu Phe Phe Leu Val Ser Val
 65 70 75 80
 Ile Tyr Lys Lys Phe Gln Leu Gly Cys Ala Ile Gly His Asn Glu Thr
 85 90 95
 Ala Met Glu Ser Glu Ala Leu Val Gly Leu Pro Ser Gln Gly Leu Asn
 100 105 110
 Ser Ser Cys Glu Ala Gln Met Phe Thr Val Asp Ser Gln Met Ser Tyr
 115 120 125
 Thr Val Pro Ile Met Ala Phe Ala Phe Val Cys His Pro Glu Val Leu
 130 135 140
 Pro Ile Tyr Thr Glu Leu Cys Arg Pro Ser Lys Arg Arg Met Gln Ala
 145 150 155 160
 Val Ala Asn Val Ser Ile Gly Ala Met Phe Cys Met Tyr Gly Leu Thr
 165 170 175
 Ala Thr Phe Gly Tyr Leu Thr Phe Tyr Ser Ser Val Lys Ala Glu Met
 180 185 190
 Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu
 195 200 205
 Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro
 210 215 220
 Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser
 225 230 235 240
 Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn
 245 250 255
 Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile
 260 265 270
 Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Cys Ile
 275 280 285 288

<210> 1075
 <211> 273
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> X = any amino acid or stop code

<400> 1075
 Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser
 1 5 10 15
 Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys
 20 25 30
 Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu
 35 40 45
 Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys
 50 55 60
 Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe
 65 70 75 80
 Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val
 85 90 95
 Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe
 100 105 110
 Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn
 115 120 125
 Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu
 130 135 140
 Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Leu Gly Trp His Cys
 145 150 155 160
 Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile
 165 170 175
 Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe
 180 185 190
 Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg
 195 200 205
 Ile Gln Gln Leu Lys Gln Leu Leu Glu Asp Ser Thr Ser Gly Glu Asp
 210 215 220
 Arg Ser Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys
 225 230 235 240
 Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys
 245 250 255
 Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser
 260 265 270
 Glu
 273

<210> 1076
 <211> 815
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> X = any amino acid or stop code

<400> 1076
 Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1	5	10	15
Leu Pro Gly Ser Gly Ser Val Leu Leu Asp Pro Cys Thr Gly Ser Thr			
	20	25	30
Ile Ser Glu Thr Thr Ser Glu Ala Trp Ser Val Glu Val Leu Pro Ser			
	35	40	45
Asp Ser Glu Ala Pro Asp Leu Lys Gln Glu Glu Arg Leu Gln Glu Leu			
	50	55	60
Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Asp Thr Asp Val Arg			
	65	70	75
Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly			
	85	90	95
Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg			
	100	105	110
Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro			
	115	120	125
Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys			
	130	135	140
Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu			
	145	150	155
Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser			
	165	170	175
Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala			
	180	185	190
Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro			
	195	200	205
Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu			
	210	215	220
Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala			
	225	230	235
Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg			
	245	250	255
Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser			
	260	265	270
Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Glu Leu Pro Pro Ala Ala			
	275	280	285
Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser			
	290	295	300
Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp			
	305	310	315
Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg			
	325	330	335
Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu			
	340	345	350
Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr			
	355	360	365
Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala			
	370	375	380
Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro			
	385	390	395
Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp			
	405	410	415
Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile			
	420	425	430
Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln			
	435	440	445
Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Lys Leu Arg Leu Ala			
	450	455	460
Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr			
	465	470	475
Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val			
	485	490	495
Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys			
	500	505	510
Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe			

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<210> 1077
<211> 256
<212> Amino acid
<213> Homo sapiens
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595


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      115      120      125
Leu Gln Ala Glu Ile Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln
  130      135      140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu
145      150      155      160
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro
      165      170      175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser
      180      185      190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser
      195      200      205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly
  210      215      220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro
225      230      235      240
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr
      245      250      255 256

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<210> 1078

<211> 590

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(590)

<223> X = any amino acid or stop code

<400> 1078

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Leu Gly Arg Gly Thr Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
  1      5      10      15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr
      20      25      30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr
      35      40      45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln
      50      55      60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu
      65      70      75      80
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr
      85      90      95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys
      100      105      110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu
      115      120      125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly
      130      135      140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser
145      150      155      160
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu
      165      170      175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu
      180      185      190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr
      195      200      205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly
      210      215      220

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Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro
225                230                235                240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile
                245                250                255
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met
                260                265                270
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val
                275                280                285
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu
                290                295                300
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val Gly Ser Leu Asn His
305                310                315                320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His
                325                330                335
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn
                340                345                350
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val
                355                360                365
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu
                370                375                380
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala
385                390                395                400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg
                405                410                415
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln
                420                425                430
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met
                435                440                445
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu
                450                455                460
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr
465                470                475                480
Gln Gln Ile Leu Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala
                485                490                495
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala
                500                505                510
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser
                515                520                525
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val
                530                535                540
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met
545                550                555                560
Arg Gln Gln Pro Thr Ser Thr Thr Ser Ser Arg Lys Ser Lys Gln His
                565                570                575
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg
                580                585                590

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<210> 1079

<211> 904

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(904)

<223> X = any amino acid or stop code

<400> 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15
Pro Asp Glu Asp Ile Thr Ala Ser Ser Gln Trp Ser Glu Ser Thr Ala			
20	25	30	
Ala Lys Tyr Gly Arg Leu Asp Ser Glu Glu Gly Asp Gly Ala Trp Cys			
35	40	45	
Pro Glu Ile Pro Val Glu Pro Asp Asp Leu Lys Glu Phe Leu Gln Ile			
50	55	60	
Asp Leu His Thr Leu His Phe Ile Thr Leu Val Gly Thr Gln Gly Arg			
65	70	75	80
His Ala Gly Gly His Gly Ile Glu Phe Ala Pro Met Tyr Lys Ile Asn			
85	90	95	
Tyr Ser Arg Asp Gly Thr Arg Trp Ile Ser Trp Arg Asn Arg His Gly			
100	105	110	
Lys Gln Val Leu Asp Gly Asn Ser Asn Pro Tyr Asp Ile Phe Leu Lys			
115	120	125	
Asp Leu Glu Pro Pro Ile Val Ala Arg Phe Val Arg Phe Ile Pro Val			
130	135	140	
Thr Asp His Ser Met Asn Val Cys Met Arg Val Glu Leu Tyr Gly Cys			
145	150	155	160
Val Trp Leu Asp Gly Leu Val Ser Tyr Asn Ala Pro Ala Gly Gln Gln			
165	170	175	
Phe Val Leu Pro Gly Gly Ser Ile Ile Tyr Leu Asn Asp Ser Val Tyr			
180	185	190	
Asp Gly Ala Val Gly Tyr Ser Met Thr Glu Gly Leu Gly Gln Leu Thr			
195	200	205	
Asp Gly Val Ser Gly Leu Asp Asp Phe Thr Gln Thr His Glu Tyr His			
210	215	220	
Val Trp Pro Gly Tyr Asp Tyr Val Gly Trp Arg Asn Glu Ser Ala Thr			
225	230	235	240
Asn Gly Tyr Ile Glu Ile Met Phe Glu Phe Asp Arg Ile Arg Asn Phe			
245	250	255	
Thr Thr Met Lys Val His Cys Asn Asn Met Phe Ala Lys Gly Val Lys			
260	265	270	
Ile Phe Lys Glu Val Gln Cys Tyr Phe Arg Ser Glu Ala Ser Glu Trp			
275	280	285	
Glu Pro Asn Ala Ile Ser Phe Pro Leu Val Leu Asp Asp Val Asn Pro			
290	295	300	
Ser Ala Arg Phe Val Thr Val Pro Leu His His Arg Met Ala Ser Ala			
305	310	315	320
Ile Lys Cys Gln Tyr His Phe Ala Asp Thr Trp Met Met Phe Ser Glu			
325	330	335	
Ile Thr Phe Gln Ser Asp Ala Ala Met Tyr Asn Asn Ser Glu Ala Leu			
340	345	350	
Pro Thr Ser Pro Met Ala Pro Thr Thr Tyr Asp Pro Met Leu Lys Val			
355	360	365	
Asp Asp Ser Asn Thr Arg Ile Leu Ile Gly Cys Leu Val Ala Ile Ile			
370	375	380	
Phe Ile Leu Leu Ala Ile Ile Val Ile Ile Leu Trp Arg Gln Phe Trp			
385	390	395	400
Gln Lys Met Leu Glu Lys Ala Ser Arg Arg Met Leu Asp Asp Glu Met			
405	410	415	
Thr Val Ser Leu Ser Leu Pro Ser Asp Ser Ser Met Phe Asn Asn Asn			
420	425	430	
Arg Ser Ser Ser Pro Ser Glu Gln Gly Ser Asn Ser Thr Tyr Asp Arg			
435	440	445	
Ile Phe Pro Leu Arg Pro Asp Tyr Gln Glu Pro Ser Arg Leu Ile Arg			
450	455	460	
Lys Leu Pro Glu Phe Ala Pro Gly Glu Glu Glu Ser Gly Cys Ser Gly			
465	470	475	480
Val Val Lys Pro Val Gln Pro Ser Gly Pro Glu Gly Val Pro His Tyr			
485	490	495	
Ala Glu Ala Asp Ile Val Asn Leu Gln Gly Val Thr Gly Gly Asn Thr			
500	505	510	
Tyr Ser Val Pro Ala Val Thr Met Asp Leu Leu Ser Gly Lys Arg Cys			

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<210> 1080
<211> 304
<212> Amino acid
<213> Homo sapiens
```

<400> 1080
Cys Ser Ala Ser Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu
1 5 10 15
Tyr Leu Pro Gly Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly

```
<210> 1081
<211> 139
<212> Amino acid
<213> Homo sapiens
```

600

115 120 125
 Pro Gly Thr Ala Gly Glu Leu Ala Ala Pro Ser
 130 135 139

<210> 1082

<211> 1105

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1105)

<223> X = any amino acid or stop code

<400> 1082

Glu Lys Asn Ala Leu Glu Pro Thr Val Tyr Phe Gly Met Gly Val Xaa
 1 5 10 15
 Ala Pro Gln Val Pro Arg Phe Gln Gln Arg Ile Thr Gly Tyr Gln Tyr
 20 25 30
 Tyr Leu Gln Leu Arg Lys Asp Ile Trp Glu Glu Gly Ile Pro Cys Thr
 35 40 45
 Leu Glu Gln Pro Ile His Leu Ala Gly Leu Ala Val Gln Ala Ile Phe
 50 55 60
 Gly Asp Phe Asp Gln Tyr Glu Ser Gln Asp Phe Leu Gln Lys Phe Ala
 65 70 75 80
 Leu Phe Pro Val Gly Trp Leu Gln Asp Glu Lys Val Leu Glu Glu Ala
 85 90 95
 Thr Gln Lys Val Ala Leu Leu His Gln Lys Tyr Arg Gly Leu Thr Ala
 100 105 110
 Pro Asp Ala Glu Met Leu Tyr Met Gln Glu Val Glu Arg Met Asp Gly
 115 120 125
 Tyr Gly Glu Glu Ser Tyr Pro Ala Lys Asp Ser Gln Gly Ser Asp Ile
 130 135 140
 Ser Ile Gly Ala Cys Leu Glu Gly Ile Phe Val Lys His Lys Asn Gly
 145 150 155 160
 Arg His Pro Val Val Phe Arg Trp His Asp Ile Ala Asn Met Ser His
 165 170 175
 Asn Lys Ser Phe Phe Ala Leu Glu Leu Ala Asn Lys Glu Glu Thr Ile
 180 185 190
 Gln Phe Gln Thr Glu Asp Met Glu Thr Ala Lys Tyr Ile Trp Arg Leu
 195 200 205
 Cys Val Ala Arg His Lys Phe Tyr Arg Leu Asn Gln Cys Asn Leu Gln
 210 215 220
 Thr Gln Thr Val Thr Val Asn Pro Ile Arg Arg Arg Ser Ser Ser Arg
 225 230 235 240
 Met Ser Leu Pro Lys Pro Gln Pro Tyr Val Met Pro Pro Pro Pro Gln
 245 250 255
 Leu His Tyr Asn Gly His Tyr Thr Glu Pro Tyr Ala Ser Ser Gln Asp
 260 265 270
 Asn Leu Phe Val Pro Asn Gln Glu Gly Tyr Tyr Gly Gln Phe Gln Thr
 275 280 285
 Ser Leu Asn Arg Ala Gln Ile Asp Phe Asn Gly Arg Ile Arg Asn Ala
 290 295 300
 Ser Val Tyr Ser Ala His Ser Thr Asn Ser Leu Asn Asn Pro Gln Pro
 305 310 315 320
 Tyr Leu Gln Pro Ser Pro Met Ser Ser Asn Pro Ser Ile Thr Gly Ser
 325 330 335
 Asp Val Met Arg Pro Asp Tyr Leu Pro Ser His Arg His Ser Ala Val
 340 345 350

```

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys
    355                                360                365
Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu
    370                                375                380
Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala
385                                390                395                400
Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser
    405                                410                415
Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser
    420                                425                430
Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala
    435                                440                445
Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr
    450                                455                460
Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro
465                                470                475                480
Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His
    485                                490                495
Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His
    500                                505                510
His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser
    515                                520                525
Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu
    530                                535                540
His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu
545                                550                555                560
Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val
    565                                570                575
Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu
    580                                585                590
Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly
    595                                600                605
His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu
    610                                615                620
Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro
625                                630                635                640
Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro
    645                                650                655
Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro
    660                                665                670
Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro
    675                                680                685
Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu
    690                                695                700
Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg
705                                710                715                720
Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser
    725                                730                735
Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys
    740                                745                750
Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala
    755                                760                765
Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys
    770                                775                780
Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu
785                                790                795                800
Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu
    805                                810                815
Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu
    820                                825                830
Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val
    835                                840                845
Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn
    850                                855                860

```

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile
 865 870 875 880
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met
 885 890 895
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu
 900 905 910
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser
 915 920 925
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe
 930 935 940
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His
 945 950 955 960
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp
 965 970 975
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr
 980 985 990
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp
 995 1000 1005
 Pro Gln Ser Pro Asn Pro Pro Leu Leu Val His Cys Ser Ala Gly Val
 1010 1015 1020
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu
 1025 1030 1035 1040
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg
 1045 1050 1055
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val
 1060 1065 1070
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu
 1075 1080 1085
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr
 1090 1095 1100
 Ala
 1105

<210> 1083

<211> 99

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(99)

<223> X = any amino acid or stop code

<400> 1083

Arg Lys Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu
 1 5 10 15
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu
 20 25 30
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr
 35 40 45
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu
 50 55 60
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro
 65 70 75 80
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp
 85 90 95
 Asp Val Glu
 99

<210> 1084
 <211> 206
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(206)
 <223> X = any amino acid or stop code

<400> 1084
 Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser
 1 5 10 15
 Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His
 20 25 30
 Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe
 35 40 45
 Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val
 50 55 60
 Pro Ser Cys Ala Phe Gly Phe Leu Ser Cys Phe Pro Leu Leu Asn Ser
 65 70 75 80
 Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu
 85 90 95
 Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp
 100 105 110
 Arg Gly Ser Leu Gln Pro Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu
 115 120 125
 Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val
 130 135 140
 Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val
 145 150 155 160
 Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro
 165 170 175
 Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro
 180 185 190
 Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly
 195 200 205 206

<210> 1085
 <211> 99
 <212> Amino acid
 <213> Homo sapiens

<400> 1085
 Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu
 1 5 10 15
 Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg
 20 25 30
 Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln
 35 40 45
 Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile
 50 55 60
 Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile
 65 70 75 80

Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val
 85 90 95
 Ser Ile Ser
 99

<210> 1086
 <211> 53
 <212> Amino acid
 <213> Homo sapiens

<400> 1086
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His
 1 5 10 15
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln
 20 25 30
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp
 35 40 45
 Thr Val Pro Asp Ser
 50 53

<210> 1087
 <211> 250
 <212> Amino acid
 <213> Homo sapiens

<400> 1087
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu
 1 5 10 15
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro
 20 25 30
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly
 35 40 45
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser
 50 55 60
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys
 65 70 75 80
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala
 85 90 95
 Leu Leu Ile Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu
 100 105 110
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys
 115 120 125
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys
 130 135 140
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr
 145 150 155 160
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile
 165 170 175
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Arg Gly His Arg
 180 185 190
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp
 195 200 205
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr
 210 215 220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn
 225 230 235 240
 Lys Arg Trp Gly Pro His Tyr Asn Gly Leu
 245 250

<210> 1088
 <211> 455
 <212> Amino acid
 <213> Homo sapiens

<400> 1088
 Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys
 1 5 10 15
 Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys
 20 25 30
 Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp
 35 40 45
 Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu
 50 55 60
 Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu
 65 70 75 80
 Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly
 85 90 95
 Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr
 100 105 110
 Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu
 115 120 125
 Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Glu Pro Asp Ser Ala Ala
 130 135 140
 Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg
 145 150 155 160
 Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu
 165 170 175
 Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu
 180 185 190
 Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu
 195 200 205
 Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu
 210 215 220
 Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser
 225 230 235 240
 Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val
 245 250 255
 Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser
 260 265 270
 Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly
 275 280 285
 Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe
 290 295 300
 Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala
 305 310 315 320
 Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala
 325 330 335
 Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr
 340 345 350
 Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr
 355 360 365
 His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His
 370 375 380

```

Asn Glu Glu Ser Val Arg Gln Ala Thr Lys Gly Gln Ala Gly Tyr Val
385                      390                      395                      400
Val Tyr Lys Ser Ile Pro Tyr Gly Ser Leu Glu Glu Val Ile Pro Tyr
                      405                      410                      415
Leu Ile Arg Arg Ala Gln Glu Asn Arg Ser Val Leu Gln Gly Ala Arg
                      420                      425                      430
Arg Glu Gln Glu Leu Leu Ser Gln Lys Leu Trp Arg Arg Leu Leu Pro
                      435                      440                      445
Gly Cys Arg Arg Ile Pro His
450                      455

```

<210> 1089

<211> 243

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(243)

<223> X = any amino acid or stop code

```

<400> 1089
Val Val Glu Phe Gly Glu Met Ser Thr Ala Arg Ala Pro Glu Gly Leu
1                      5                      10                      15
Arg Trp Phe Gln Leu Tyr Val His Pro Asp Leu Gln Leu Asn Lys Gln
                      20                      25                      30
Leu Ile Gln Arg Val Glu Ser Leu Gly Phe Lys Ala Leu Val Ile Thr
                      35                      40                      45
Leu Asp Thr Pro Val Cys Gly Asn Arg Arg His Asp Ile Arg Asn Gln
50                      55                      60
Leu Arg Arg Asn Leu Thr Leu Thr Asp Leu Gln Ser Pro Lys Lys Gly
65                      70                      75                      80
Asn Ala Ile Pro Tyr Phe Gln Met Thr Pro Ile Ser Thr Ser Leu Cys
                      85                      90                      95
Trp Asn Asp Leu Ser Trp Phe Gln Ser Ile Thr Arg Leu Pro Ile Ile
100                      105                      110
Leu Lys Gly Ile Leu Thr Lys Glu Asp Ala Glu Leu Ala Val Lys His
115                      120                      125
Asn Val Gln Gly Ile Ile Val Ser Asn His Gly Gly Arg Gln Leu Asp
130                      135                      140
Glu Val Leu Ala Ser Ile Asp Ala Leu Thr Glu Val Gly Ala Ala Glu
145                      150                      155                      160
Xaa Gly Asn Met Lys Tyr Tyr Leu Asp Ala Gly Val Arg Thr Gly Asn
165                      170                      175
Asp Val Gln Lys Ala Leu Ala Leu Gly Ala Lys Cys Ile Phe Leu Gly
180                      185                      190
Arg Pro Ile Leu Trp Gly Leu Ala Cys Lys Gly Glu His Gly Val Lys
195                      200                      205
Glu Val Leu Asn Ile Leu Thr Asn Glu Phe His Thr Ser Met Ala Leu
210                      215                      220
Thr Gly Cys Arg Ser Val Ala Glu Ile Asn Arg Asn Leu Val Gln Phe
225                      230                      235                      240
Ser Arg Leu
243

```

<210> 1090

<211> 90

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(90)

<223> X = any amino acid or stop code

<400> 1090

```

Phe Phe Leu Arg Trp Ser Phe Thr Leu Leu Pro Arg Leu Glu Cys Gln
 1          5          10          15
Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Xaa
          20          25          30
Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Gly Leu Gln Val Pro Thr
          35          40          45
Ser Met Leu Gly Xaa Phe Phe Cys Ile Phe Ser Arg Glu Gly Ile Ser
 50          55          60
Pro Cys Trp Pro Gly Trp Ser Gln Thr Pro Lys Val Ile His Leu Pro
 65          70          75          80
Arg Pro Pro Arg Val Leu Arg Leu Gln Ala
          85          90

```

<210> 1091

<211> 259

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1091

```

Leu Leu Cys Phe Val His Thr Ala Leu Gln Ser Phe Gln Gly Glu Leu
 1          5          10          15
Tyr Glu Pro His Val Val Ile Ala Ile Val Val Phe Leu Val Lys Leu
          20          25          30
Gly Ile Cys Lys Xaa Arg Ala Ser Trp Arg Lys Lys Val Thr Leu Val
          35          40          45
Val Lys Xaa Ser Leu Lys Ile Cys Phe Thr Lys Tyr Gly Ser Cys Tyr
 50          55          60
His Pro Gly Glu Lys Ser Ser Trp Leu Phe Asn Xaa Arg Met Val
 65          70          75          80
Asn Asp Cys Leu Ala Thr Ser Cys Ser Asn Arg Ser Phe Val Ile Gln
          85          90          95
Gln Ile Pro Ser Ser Asn Leu Phe Met Val Val Val Asp Ser Ser Cys
          100          105          110
Leu Cys Glu Ser Val Ala Pro Ile Thr Met Ala Pro Ile Glu Ile Arg
          115          120          125
Tyr Ile Leu Leu Cys Ala Gly Pro Leu Thr Thr Thr Glu Thr Ser Lys
          130          135          140
Gly Tyr Gln Trp Xaa Gly Asn Leu Gly Glu Lys Tyr Xaa Arg Arg Lys
145          150          155          160
Ile Thr Ser Phe Pro Leu Leu Glu Arg Glu Ser Ser Xaa Glu Ser Cys
          165          170          175
His Cys Gln Ile Leu Thr Ser Glu Met Gln Ser Arg Lys Lys Gln Ser

```

```

      180      185      190
Leu Glu Thr Cys Leu Asn Tyr Ser Gln His Asn Glu Ser Leu Lys Cys
      195      200      205
Glu Arg Leu Lys Ala Gln Lys Ile Arg Arg Arg Pro Glu Ser Cys His
      210      215      220
Gly Phe His Pro Glu Glu Asn Ala Arg Glu Cys Gly Gly Ala Pro Ser
      225      230      235      240
Leu Gln Ala Gln Thr Val Leu Leu Leu Leu Pro Leu Leu Leu Met Leu
      245      250      255
Phe Ser Arg
      259

```

```

<210> 1092
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

      <400> 1092
Val Pro Ser Pro Thr His Asp Pro Lys Pro Ala Glu Ala Pro Met Pro
  1      5      10      15
Ala Xaa Pro Ala Pro Pro Gly Pro Ala Ser Pro Gly Gly Ala Leu Glu
      20      25      30
Pro Pro Ala Ala Ala Arg Ala Gly Gly Ser Pro Thr Ala Val Arg Ser
      35      40      45
Ile Leu Thr Lys Glu Arg Arg Pro Glu Gly Gly Tyr Lys Ala Val Trp
      50      55      60
Phe Gly Glu Asp Ile Gly Thr Glu Ala Asp Val Val Val Leu Asn Ala
      65      70      75      80
Pro Thr Leu Asp Val Asp Gly Ala Ser Asp Ser Gly Ser Gly Asp Glu
      85      90      95
Gly Glu Gly Ala Gly Arg Gly Gly Gly Pro Tyr Asp Ala Pro Gly Gly
      100      105      110
Asp Asp Ser Tyr Ile
      115      117

```

```

<210> 1093
<211> 763
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1093
Leu Ile Ser Leu Ala Gly Pro Thr Asp Asp Ile Gln Ser Thr Gly Pro
  1      5      10      15
Gln Val His Ala Leu Asn Ile Leu Arg Ala Leu Phe Arg Asp Thr Arg
      20      25      30
Leu Gly Glu Asn Ile Ile Pro Tyr Val Ala Asp Gly Ala Lys Ala Ala
      35      40      45
Ile Leu Gly Phe Thr Ser Pro Val Trp Ala Val Arg Asn Ser Ser Thr
      50      55      60

```

Leu 65	Leu	Phe	Ser	Ala	Leu 70	Ile	Thr	Arg	Ile	Phe 75	Gly	Val	Lys	Arg	Ala 80
Lys 85	Asp	Glu	His	Ser	Lys	Thr	Asn	Arg	Met	Thr 90	Gly	Arg	Glu	Phe 95	Phe
Ser 100	Arg	Phe	Pro	Glu	Leu	Tyr	Pro	Phe	Leu	Leu	Lys	Gln	Leu	Glu	Thr
Val 115	Ala	Asn	Thr	Val	Asp	Ser	Asp	Met	Gly	Glu	Pro	Asn	Arg	His	Pro
Ser 130	Met	Phe	Leu	Leu	Leu	Leu	Val	Leu	Glu	Arg	Leu	Tyr	Ala	Ser	Pro
Met 145	Asp	Gly	Thr	Ser	Ser	Ala	Leu	Ser	Met	Gly	Pro	Phe	Val	Pro	Phe
Ile 165	Met	Arg	Cys	Gly	His	Ser	Pro	Val	Tyr	His	Ser	Arg	Glu	Met	Ala
Ala 180	Arg	Ala	Leu	Val	Pro	Phe	Val	Met	Ile	Asp	His	Ile	Pro	Asn	Thr
Ile 195	Arg	Thr	Leu	Leu	Ser	Thr	Leu	Pro	Ser	Cys	Thr	Asp	Gln	Cys	Phe
Arg 210	Gln	Asn	His	Ile	His	Gly	Thr	Leu	Leu	Gln	Val	Phe	His	Leu	Val
Gln 225	Ala	Tyr	Ser	Asp	Ser	Lys	His	Gly	Thr	Asn	Ser	Asp	Phe	Gln	His
Glu 245	Leu	Thr	Asp	Ile	Thr	Val	Cys	Thr	Lys	Ala	Lys	Leu	Trp	Leu	Ala
Lys 260	Arg	Gln	Asn	Pro	Cys	Leu	Val	Thr	Arg	Ala	Val	Tyr	Ile	Asp	Ile
Leu 275	Phe	Leu	Leu	Thr	Cys	Cys	Leu	Asn	Arg	Ser	Ala	Lys	Asp	Asn	Gln
Pro 290	Val	Leu	Glu	Ser	Leu	Gly	Phe	Trp	Glu	Glu	Val	Arg	Gly	Ile	Ile
Ser 305	Gly	Ser	Glu	Leu	Ile	Thr	Gly	Phe	Pro	Trp	Ala	Phe	Lys	Val	Pro
Gly 325	Leu	Pro	Gln	Tyr	Leu	Gln	Ser	Leu	Thr	Arg	Leu	Ala	Ile	Ala	Ala
Val 340	Trp	Ala	Ala	Ala	Lys	Ser	Gly	Glu	Arg	Glu	Thr	Asn	Val	Pro	
Ile 355	Ser	Phe	Ser	Gln	Leu	Leu	Glu	Ser	Ala	Phe	Pro	Glu	Val	Arg	Ser
Leu 370	Thr	Leu	Glu	Ala	Leu	Leu	Glu	Lys	Phe	Leu	Ala	Ala	Ala	Ser	Gly
Leu 385	Gly	Glu	Lys	Gly	Val	Pro	Pro	Leu	Leu	Cys	Asn	Met	Gly	Glu	Lys
Phe 405	Leu	Leu	Leu	Ala	Met	Lys	Glu	Asn	His	Pro	Glu	Cys	Phe	Cys	Lys
Ile 420	Leu	Lys	Ile	Leu	His	Cys	Met	Asp	Pro	Gly	Glu	Trp	Leu	Pro	Gln
Thr 435	Glu	His	Cys	Val	His	Leu	Thr	Pro	Lys	Glu	Phe	Leu	Ile	Trp	Thr
Met 450	Asp	Ile	Ala	Ser	Asn	Glu	Arg	Ser	Glu	Ile	Gln	Ser	Val	Ala	Leu
Arg 465	Leu	Ala	Ser	Lys	Val	Ile	Ser	His	His	Met	Gln	Thr	Cys	Val	Glu
Asn 485	Arg	Glu	Leu	Ile	Ala	Ala	Glu	Leu	Lys	Gln	Trp	Val	Gln	Leu	Val
Ile 500	Leu	Ser	Cys	Glu	Asp	His	Leu	Pro	Thr	Glu	Ser	Arg	Leu	Ala	Val
Val 515	Glu	Val	Leu	Thr	Ser	Thr	Thr	Pro	Leu	Phe	Leu	Thr	Asn	Pro	His
Pro 530	Ile	Leu	Glu	Leu	Gln	Asp	Thr	Leu	Ala	Leu	Trp	Lys	Cys	Val	Leu
Thr 545	Leu	Leu	Gln	Ser	Glu	Glu	Gln	Ala	Val	Arg	Asp	Ala	Ala	Thr	Glu
Thr 565	Val	Thr	Thr	Ala	Met	Ser	Gln	Glu	Asn	Thr	Cys	Gln	Ser	Thr	Glu

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu
 580 585 590
 Ala Val Leu Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly
 595 600 605
 Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val
 610 615 620
 Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu
 625 630 635 640
 Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr
 645 650 655
 Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro
 660 665 670
 Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln
 675 680 685
 Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu
 690 695 700
 Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg
 705 710 715 720
 Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly
 725 730 735
 Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg
 740 745 750
 Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys
 755 760 763

<210> 1094

<211> 413

<212>Amino acid

<213> Homo sapiens

<400> 1094

His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly
 1 5 10 15
 Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly
 20 25 30
 Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp
 35 40 45
 Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr
 50 55 60
 Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu
 65 70 75 80
 Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala
 85 90 95
 Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Gly Phe Gly
 100 105 110
 Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys
 115 120 125
 Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp
 130 135 140
 Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val
 145 150 155 160
 Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala
 165 170 175
 Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu
 180 185 190
 Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu
 195 200 205
 Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro
 210 215 220


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Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe
225                230                235                240
Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg
                245                250                255
Pro Gln Glu Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly
                260                265                270
Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala
                275                280                285
Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser
                290                295                300
Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp
305                310                315                320
Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr
                325                330                335
Glu Ser Gln Asp Val Pro Trp Glu Glu Leu His Asn Arg Phe Gln Ser
                340                345                350
Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu
                355                360                365
Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser
                370                375                380
Ile Trp Thr Asp Leu Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys
385                390                395                400
Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val
                405                410                413

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<210> 1095

<211> 344

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(344)

<223> X = any amino acid or stop code

<400> 1095

```

Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His
1          5          10          15
Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile
                20          25          30
Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu
                35          40          45
Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu
                50          55          60
Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn
65          70          75          80
Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys
                85          90          95
Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile
                100          105          110
Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val
                115          120          125
Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln
130          135          140
His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa
145          150          155          160
Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr
                165          170          175
Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Phe Met

```

```

      180      185      190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly
      195      200      205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg
      210      215      220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys
225      230      235      240
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr
      245      250      255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys
      260      265      270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His
      275      280      285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu
290      295      300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly
305      310      315      320
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro
      325      330      335
Asn Leu Phe His Cys Thr Lys Ile
      340      344

```

<210> 1096

<211> 76

<212>Amino acid

<213> Homo sapiens

<400> 1096

```

Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser
 1      5      10      15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala
      20      25      30
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu
      35      40      45
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser
      50      55      60
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro
65      70      75 76

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<210> 1097

<211> 1462

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1462)

<223> X = any amino acid or stop code

<400> 1097

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Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
 1      5      10      15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
      20      25      30

```

Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser
 35 40 45
 Gly Lys Ile Pro His Tyr Glu Ser Glu Ile Asp Glu Asn Thr Phe Phe
 50 55 60
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu
 65 70 75 80
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu
 85 90 95
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser
 100 105 110
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser
 115 120 125
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu
 130 135 140
 Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu
 145 150 155 160
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro
 165 170 175
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn
 180 185 190
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu
 195 200 205
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn
 210 215 220
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser
 225 230 235 240
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg
 245 250 255
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp
 260 265 270
 Ser Thr Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe
 275 280 285
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met
 290 295 300
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His
 305 310 315 320
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val
 325 330 335
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His
 340 345 350
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys
 355 360 365
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His
 370 375 380
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys
 385 390 395 400
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His
 405 410 415
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu
 420 425 430
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln
 435 440 445
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly
 450 455 460
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu
 465 470 475 480
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val
 485 490 495
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg
 500 505 510
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr
 515 520 525
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn
 530 535 540

Phe Pro Leu Glu Ile Lys Ser Leu Pro Arg Glu Ser Met Leu Thr Val
 545 550 555 560
 Lys Leu Phe Gly Ile Ala Cys Ala Thr Asn Asn Ala Asn Leu Leu Ala
 565 570 575
 Trp Thr Cys Leu Pro Leu Phe Pro Lys Glu Lys Ser Ile Leu Gly Ser
 580 585 590
 Met Leu Phe Ser Met Thr Leu Gln Ser Glu Pro Pro Val Glu Met Ile
 595 600 605
 Thr Pro Gly Val Trp Asp Val Ser Gln Pro Ser Pro Val Thr Leu Gln
 610 615 620
 Ile Asp Phe Pro Ala Thr Gly Trp Glu Tyr Met Lys Pro Asp Ser Glu
 625 630 635 640
 Glu Asn Arg Ser Asn Leu Glu Glu Pro Leu Lys Glu Cys Ile Lys His
 645 650 655
 Ile Ala Arg Leu Ser Gln Lys Gln Thr Pro Leu Leu Leu Ser Glu Glu
 660 665 670
 Lys Lys Arg Tyr Leu Trp Phe Tyr Arg Phe Tyr Cys Asn Asn Glu Asn
 675 680 685
 Cys Ser Leu Pro Leu Val Leu Gly Ser Ala Pro Gly Trp Asp Glu Arg
 690 695 700
 Thr Val Ser Glu Met His Thr Ile Leu Arg Arg Trp Thr Phe Ser Gln
 705 710 715 720
 Pro Leu Glu Ala Leu Gly Leu Leu Thr Ser Ser Phe Pro Asp Gln Glu
 725 730 735
 Ile Arg Lys Val Ala Val Gln Gln Leu Asp Asn Leu Leu Asn Asp Glu
 740 745 750
 Leu Leu Glu Tyr Leu Pro Gln Leu Val Gln Ala Val Lys Phe Glu Trp
 755 760 765
 Asn Leu Glu Ser Pro Leu Val Gln Leu Leu Leu His Arg Ser Leu Gln
 770 775 780
 Ser Ile Gln Val Ala His Arg Leu Tyr Trp Leu Leu Lys Asn Ala Glu
 785 790 795 800
 Asn Glu Ala Tyr Phe Lys Ser Trp Tyr Gln Lys Leu Leu Ala Ala Leu
 805 810 815
 Gln Phe Cys Ala Gly Lys Ala Leu Asn Asp Glu Phe Ser Lys Glu Gln
 820 825 830
 Lys Leu Ile Lys Ile Leu Gly Asp Ile Gly Glu Arg Val Lys Ser Ala
 835 840 845
 Ser Asp His Gln Arg Gln Glu Val Leu Lys Lys Glu Ile Gly Arg Leu
 850 855 860
 Glu Glu Phe Phe Gln Asp Val Asn Thr Cys His Leu Pro Leu Asn Pro
 865 870 875 880
 Ala Leu Cys Ile Lys Gly Ile Asp His Asp Ala Cys Ser Tyr Phe Thr
 885 890 895
 Ser Asn Ala Leu Pro Leu Lys Ile Thr Phe Ile Asn Ala Asn Leu Met
 900 905 910
 Gly Lys Asn Ile Ser Ile Ile Phe Lys Ala Gly Asp Asp Leu Arg Gln
 915 920 925
 Asp Met Leu Val Leu Gln Leu Ile Gln Val Met Asp Asn Ile Trp Leu
 930 935 940
 Gln Glu Gly Leu Asp Met Gln Met Ile Ile Tyr Arg Cys Leu Ser Thr
 945 950 955 960
 Gly Lys Asp Gln Arg Leu Val Gln Met Val Pro Asp Ala Val Thr Leu
 965 970 975
 Ala Lys Ile His Arg His Ser Gly Leu Ile Gly Pro Leu Lys Glu Asn
 980 985 990
 Thr Ile Lys Lys Trp Phe Ser Gln His Asn His Leu Lys Ala Asp Tyr
 995 1000 1005
 Glu Lys Ala Leu Arg Asn Phe Tyr Ser Cys Ala Gly Trp Cys Val
 1010 1015 1020
 Val Thr Phe Ile Leu Gly Val Cys Asp Arg His Asn Asp Asn Ile Met
 1025 1030 1035 1040
 Leu Thr Lys Ser Gly His Met Phe His Ile Asp Phe Gly Lys Phe Leu
 1045 1050 1055

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe
 1060 1065 1070
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn
 1075 1080 1085
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn
 1090 1095 1100
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met
 1105 1110 1115 1120
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr
 1125 1130 1135
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser
 1140 1145 1150
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys
 1155 1160 1165
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro
 1170 1175 1180
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser
 1185 1190 1195 1200
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys
 1205 1210 1215
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr
 1220 1225 1230
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln
 1235 1240 1245
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp
 1250 1255 1260
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu
 1265 1270 1275 1280
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn
 1285 1290 1295
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr
 1300 1305 1310
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys
 1315 1320 1325
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr
 1330 1335 1340
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala
 1345 1350 1355 1360
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val
 1365 1370 1375
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr
 1380 1385 1390
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val
 1395 1400 1405
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn
 1410 1415 1420
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu
 1425 1430 1435 1440
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe
 1445 1450 1455
 Met Gln Ser Val Leu His
 1460 1462

<210> 1098

<211> 111

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(111)

<223> X = any amino acid or stop code

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<400> 1098
Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln
 1           5           10           15
Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Gln
           20           25           30
Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro
           35           40           45
Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg
           50           55           60
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro
           65           70           75           80
Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro
           85           90           95
Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro
           100           105           110 111

```

<210> 1099

<211> 1070

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (1070)

<223> X = any amino acid or stop code

```

<400> 1099
Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala
 1           5           10           15
Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln
           20           25           30
Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp
           35           40           45
Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu
           50           55           60
Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe
           65           70           75           80
Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met
           85           90           95
Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala
           100           105           110
Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln
           115           120           125
Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Asp Ile Val Ser Met Asp
           130           135           140
Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Pro Glu Cys Thr Arg
           145           150           155           160
Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Asp Ile
           165           170           175
Ala Phe Phe Ser Leu Leu Leu Phe Thr Ser Phe Phe Phe Ala Met
           180           185           190
Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg
           195           200           205
Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys
           210           215           220

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Gly	Leu	Asp	Ala	Phe	Leu	Gly	Leu	Ala	Thr	Pro	Lys	Leu	Met	Val	Pro
225					230					235					240
Arg	Glu	Phe	Lys	Pro	Thr	Leu	Pro	Gly	Arg	Gly	Trp	Leu	Val	Ser	Pro
				245					250					255	
Phe	Gly	Ala	Asn	Pro	Trp	Trp	Trp	Ser	Val	Ala	Ala	Ala	Leu	Pro	Ala
			260					265					270		
Leu	Leu	Leu	Ser	Ile	Leu	Ile	Phe	Met	Asp	Gln	Gln	Ile	Thr	Ala	Val
		275					280					285			
Ile	Leu	Asn	Arg	Met	Glu	Tyr	Arg	Leu	Gln	Lys	Gly	Ala	Gly	Phe	His
	290					295					300				
Leu	Asp	Leu	Phe	Trp	Val	Ala	Val	Leu	Met	Leu	Leu	Thr	Ser	Ala	Leu
305					310					315					320
Gly	Leu	Pro	Trp	Tyr	Val	Ser	Ala	Thr	Val	Ile	Ser	Leu	Ala	His	Met
				325					330					335	
Asp	Ser	Leu	Arg	Arg	Glu	Ser	Arg	Ala	Cys	Ala	Pro	Gly	Glu	Arg	Pro
			340					345					350		
Asn	Phe	Leu	Gly	Ile	Arg	Glu	Gln	Arg	Leu	Thr	Gly	Leu	Val	Val	Phe
		355					360					365			
Ile	Leu	Thr	Gly	Ala	Ser	Ile	Phe	Leu	Ala	Pro	Val	Leu	Lys	Phe	Ile
	370					375					380				
Pro	Met	Pro	Val	Leu	Tyr	Gly	Ile	Phe	Leu	Tyr	Met	Gly	Val	Ala	Ala
385					390					395					400
Leu	Ser	Ser	Ile	Gln	Phe	Thr	Asn	Arg	Val	Lys	Leu	Leu	Leu	Met	Pro
			405						410					415	
Ala	Lys	His	Gln	Pro	Asp	Leu	Leu	Leu	Leu	Arg	His	Val	Pro	Leu	Thr
			420					425					430		
Arg	Val	His	Leu	Phe	Thr	Ala	Ile	Ser	Phe	Ala	Cys	Leu	Gly	Leu	Leu
	435						440					445			
Trp	Ile	Ile	Lys	Ser	Thr	Pro	Ala	Ala	Ile	Ile	Phe	Pro	Leu	Met	Leu
	450					455					460				
Leu	Gly	Leu	Val	Gly	Val	Arg	Lys	Ala	Leu	Glu	Arg	Val	Phe	Ser	Pro
465					470					475					480
Gln	Glu	Leu	Leu	Trp	Leu	Asp	Glu	Leu	Met	Pro	Glu	Glu	Glu	Arg	Ser
				485					490					495	
Ile	Pro	Glu	Lys	Gly	Leu	Glu	Pro	Glu	His	Ser	Phe	Ser	Gly	Ser	Asp
			500					505					510		
Ser	Glu	Asp	Ser	Glu	Leu	Met	Tyr	Gln	Pro	Lys	Ala	Pro	Glu	Ile	Asn
		515					520					525			
Ile	Ser	Val	Asn	Xaa	Leu	Glu	Xaa	Glu	Phe	Val	Arg	Glu	Ile	Arg	Gly
	530					535					540				
Pro	Ala	Val	Pro	Arg	Leu	Thr	Ser	Ala	Glu	Asp	Arg	His	Arg	His	Gly
545					550					555					560
Pro	His	Ala	His	Ser	Pro	Glu	Leu	Gln	Arg	Thr	Gly	Arg	Asp	Tyr	Ser
				565					570					575	
Leu	Asp	Tyr	Leu	Pro	Phe	Arg	Leu	Trp	Val	Gly	Ile	Trp	Val	Ala	Thr
			580					585					590		
Phe	Cys	Leu	Val	Leu	Val	Ala	Thr	Glu	Ala	Ser	Val	Leu	Val	Arg	Tyr
	595						600					605			
Phe	Thr	Arg	Phe	Thr	Glu	Glu	Gly	Phe	Cys	Ala	Leu	Ile	Ser	Leu	Ile
	610					615					620				
Phe	Ile	Tyr	Asp	Ala	Val	Gly	Lys	Met	Leu	Asn	Leu	Thr	His	Thr	Tyr
625					630					635					640
Pro	Ile	Gln	Lys	Pro	Gly	Ser	Ser	Ala	Tyr	Gly	Cys	Leu	Cys	Gln	Tyr
				645					650					655	
Pro	Gly	Pro	Gly	Gly	Asn	Glu	Ser	Gln	Trp	Ile	Arg	Thr	Arg	Pro	Lys
			660					665					670		
Asp	Arg	Asp	Asp	Ile	Val	Ser	Met	Asp	Leu	Gly	Leu	Ile	Asn	Ala	Ser
		675					680					685			
Leu	Leu	Pro	Pro	Pro	Glu	Cys	Thr	Arg	Gln	Gly	Gly	His	Pro	Arg	Gly
	690					695					700				
Pro	Gly	Cys	His	Thr	Val	Pro	Asp	Ile	Ala	Phe	Phe	Ser	Leu	Leu	Leu
705					710					715					720
Phe	Leu	Thr	Ser	Phe	Phe	Phe	Ala	Met	Ala	Leu	Lys	Cys	Val	Lys	Thr
				725					730						735

Ser Arg Phe Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser
 740 745 750
 Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly
 755 760 765
 Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu
 770 775 780
 Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp
 785 790 795 800
 Trp Ser Val Ala Ala Ala Leu Pro Ala Leu Leu Leu Ser Ile Leu Ile
 805 810 815
 Phe Met Asp Gln Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr
 820 825 830
 Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala
 835 840 845
 Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser
 850 855 860
 Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser
 865 870 875 880
 Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu
 885 890 895
 Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile
 900 905 910
 Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly
 915 920 925
 Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr
 930 935 940
 Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro
 945 950 955 960
 Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser
 965 970 975
 His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr
 980 985 990
 Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val
 995 1000 1005
 Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu
 1010 1015 1020
 Asp Glu Leu Met Pro Glu Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu
 1025 1030 1035 1040
 Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu
 1045 1050 1055
 Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn
 1060 1065 1070

<210> 1100

<211> 875

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(875)

<223> X = any amino acid or stop code

<400> 1100

Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
 1 5 10 15
 Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
 20 25 30
 Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

		35					40					45					
Asp	Val	Glu	Gln	Val	Thr	Leu	Ala	Leu	Gly	Ala	Gly	Ala	Asp	Lys	Asp		
	50					55					60						
Gly	Thr	Leu	Leu	Leu	Glu	Gly	Gly	Gly	Arg	Asp	Glu	Gly	Gln	Arg	Arg	80	
65					70					75							
Thr	Pro	Gln	Gly	Ile	Gly	Leu	Leu	Ala	Lys	Thr	Pro	Leu	Ser	Arg	Pro	95	
				85					90								
Val	Lys	Arg	Asn	Asn	Ala	Lys	Tyr	Arg	Arg	Ile	Gln	Thr	Leu	Ile	Tyr		
			100					105					110				
Asp	Ala	Leu	Glu	Arg	Pro	Arg	Gly	Trp	Ala	Leu	Leu	Tyr	His	Ala	Leu		
			115				120					125					
Val	Phe	Leu	Ile	Val	Leu	Gly	Cys	Leu	Ile	Leu	Ala	Val	Leu	Thr	Thr		
						135					140						
Phe	Lys	Glu	Tyr	Glu	Thr	Val	Ser	Gly	Asp	Trp	Leu	Leu	Leu	Leu	Glu		
145					150					155					160		
Thr	Phe	Ala	Ile	Phe	Ile	Phe	Gly	Ala	Glu	Phe	Ala	Leu	Arg	Ile	Trp		
				165					170					175			
Ala	Ala	Gly	Cys	Cys	Cys	Arg	Tyr	Lys	Gly	Trp	Arg	Gly	Arg	Leu	Lys		
			180					185					190				
Phe	Ala	Arg	Lys	Pro	Leu	Cys	Met	Leu	Asp	Ile	Phe	Val	Leu	Ile	Ala		
			195				200					205					
Ser	Val	Pro	Val	Val	Ala	Val	Gly	Asn	Gln	Gly	Asn	Val	Leu	Ala	Thr		
						215					220						
Ser	Leu	Arg	Ser	Leu	Arg	Phe	Leu	Gln	Ile	Leu	Arg	Met	Leu	Arg	Asp		
225					230					235					240		
Gly	Pro	Gly	Glu	Gly	Gly	Thr	Trp	Lys	Leu	Leu	Gly	Ser	Ala	Ile	Cys		
				245					250					255			
Ala	His	Ser	Lys	Glu	Leu	Ile	Thr	Ala	Trp	Tyr	Ile	Gly	Phe	Leu	Thr		
			260					265					270				
Leu	Ile	Leu	Ser	Ser	Phe	Leu	Val	Tyr	Leu	Val	Glu	Lys	Asp	Val	Pro		
			275				280					285					
Glu	Val	Asp	Ala	Gln	Gly	Glu	Glu	Met	Lys	Glu	Glu	Phe	Glu	Thr	Tyr		
					295					300							
Ala	Asp	Ala	Leu	Trp	Trp	Gly	Leu	Ile	Thr	Leu	Ala	Thr	Ile	Gly	Tyr		
305					310					315					320		
Gly	Asp	Lys	Thr	Pro	Lys	Thr	Trp	Glu	Gly	Arg	Leu	Ile	Ala	Ala	Thr		
				325					330					335			
Phe	Ser	Leu	Ile	Gly	Val	Ser	Phe	Phe	Ala	Leu	Pro	Ala	Gly	Ile	Leu		
			340					345					350				
Gly	Ser	Gly	Leu	Ala	Leu	Lys	Val	Gln	Glu	Gln	His	Arg	Gln	Lys	His		
			355				360					365					
Phe	Glu	Lys	Arg	Arg	Lys	Pro	Ala	Ala	Glu	Leu	Ile	Gln	Ala	Ala	Trp		
			370			375					380						

```

545          550          555          560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly
          565          570          575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe
          580          585          590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg
          595          600          605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe
          610          615          620
Val Lys Ser Leu Lys Gly Gln Val Gln Gly Leu Gly Arg Lys Leu Asp
625          630          635          640
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln
          645          650          655
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala
          660          665          670
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys
          675          680          685
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln
          690          695          700
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro
705          710          715          720
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr
          725          730          735
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro
          740          745          750
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp
          755          760          765
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser
          770          775          780
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His
785          790          795          800
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg
          805          810          815
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu
          820          825          830
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe
          835          840          845
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser
          850          855          860
Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile
865          870          875

```

<210> 1101

<211> 3530

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3530)

<223> X = any amino acid or stop code

<400> 1101

```

Arg Thr Arg Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr Ala Phe Glu
 1          5          10          15
Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val Arg Leu His
          20          25          30
Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser
          35          40          45

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622

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Gly	Val	Phe	Gln	Phe	Ser	Thr	Ser	Ser	Arg	Asn	Ile	Ile	Val	Ser	Glu		
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Ser	Asp	Leu	Ile	Lys	Val	Ser	Tyr	Gln	Thr	Thr	Ala	Gly	Ser	Ala	Lys		
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Pro	Leu	Glu	Asp	Phe	Glu	Pro	Val	Gln	Asn	Gly	Glu	Leu	Phe	Phe	Gln		
			660					665					670				
Lys	Phe	Gln	Thr	Glu	Val	Asp	Phe	Glu	Ile	Thr	Ile	Ile	Asn	Asp	Gln		
		675					680					685					
Leu	Ser	Glu	Ile	Glu	Glu	Phe	Phe	Tyr	Ile	Asn	Leu	Thr	Ser	Val	Glu		
	690					695					700						
Ile	Arg	Gly	Leu	Gln	Lys	Phe	Asp	Val	Asn	Trp	Ser	Pro	Arg	Leu	Asn		
705				710						715					720		
Leu	Asp	Phe	Ser	Val	Ala	Val	Ile	Thr	Ile	Leu	Asp	Asn	Asp	Asp	Leu		
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Ala	Gly	Met	Asp	Ile	Ser	Phe	Pro	Glu	Thr	Thr	Val	Ala	Val	Ala	Val		
			740					745				750					
Asp	Thr	Thr	Leu	Ile	Pro	Val	Glu	Thr	Glu	Ser	Thr	Thr	Tyr	Leu	Ser		
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Thr	Ser	Lys	Thr	Thr	Thr	Ile	Leu	Gln	Pro	Thr	Asn	Val	Val	Ala	Ile		
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Val	Thr	Glu	Ala	Thr	Gly	Val	Ser	Ala	Ile	Pro	Glu	Lys	Leu	Val	Thr		
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Leu	His	Gly	Thr	Pro	Ala	Val	Ser	Glu	Lys	Pro	Asp	Val	Ala	Thr	Val		
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Thr	Ala	Asn	Val	Ser	Ile	His	Gly	Thr	Phe	Ser	Leu	Gly	Pro	Ser	Ile		
			820					825					830				
Val	Tyr	Ile	Glu	Glu	Glu	Met	Lys	Asn	Gly	Thr	Phe	Asn	Thr	Ala	Glu		
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Val	Leu	Ile	Arg	Arg	Thr	Gly	Gly	Phe	Thr	Gly	Asn	Val	Ser	Ile	Thr		
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Val	Lys	Thr	Phe	Gly	Glu	Arg	Cys	Ala	Gln	Met	Glu	Pro	Asn	Ala	Leu		
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Pro	Phe	Arg	Gly	Ile	Tyr	Gly	Ile	Ser	Asn	Leu	Thr	Trp	Ala	Val	Glu		
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Glu	Glu	Asp	Phe	Glu	Glu	Gln	Thr	Leu	Thr	Leu	Ile	Phe	Leu	Asp	Gly		
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Glu	Arg	Glu	Arg	Lys	Val	Ser	Val	Gln	Ile	Leu	Asp	Asp	Asp	Glu	Pro		
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Glu	Gly	Gln	Glu	Phe	Phe	Tyr	Val	Phe	Leu	Thr	Asn	Pro	Gln	Gly	Gly		
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Ser	Glu	Glu	Ser	Gln	Ser	Gly	Leu	Glu	Leu	Arg	Glu	Gly	Ala	Val	Met		
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Arg	Arg	Leu	His	Leu	Ile	Val	Thr	Arg	Gln	Pro	Asn	Arg	Ala	Phe	Glu		
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Gly	Thr	Thr	Thr	Cys	Thr	Met	Gly	Gln	Thr	Lys	Cys	Phe	Ile	Ser	Ile		
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Glu	Leu	Lys	Pro	Glu	Lys	Val	Pro	Gln	Val	Glu	Val	Tyr	Phe	Phe	Val		
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 1075 1080 1085
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val
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 Tyr Phe Ser Val Gly Ser Arg Leu Ala Val Ala His Lys Lys Ala Thr
 1105 1110 1115 1120
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 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly
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 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr
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 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp
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 Val Ile Leu Thr Pro Glu Thr Gly Ser Leu Asn Ser Phe Pro Lys Arg
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 Phe Gln Ile Val Leu Phe Asp Pro Lys Gly Gly Ala Arg Ile Asp Lys
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 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln
 1220 1225 1230
 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp
 1235 1240 1245
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu
 1250 1255 1260
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile
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 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu
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 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr
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 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser
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 Ile Leu Asp Ser Cys Pro Tyr Leu Ser Ile Leu Ala Leu His Trp Tyr
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 Pro Gln Gln Ile Asn Gly His Lys Phe Glu Gly Lys Glu Gly Asp Tyr
 1365 1370 1375
 Ile Arg Ile Pro Glu Arg Leu Leu Asp Val Gln Asp Ala Glu Ile Met
 1380 1385 1390
 Ala Gly Lys Ser Thr Cys Lys Leu Val Gln Phe Thr Glu Tyr Ser Ser
 1395 1400 1405
 Gln Gln Trp Phe Ile Ser Gly Asn Asn Leu Pro Thr Leu Lys Asn Lys
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 Val Leu Ser Leu Ser Val Lys Gly Gln Ser Ser Gln Leu Leu Thr Asn
 1425 1430 1435 1440
 Asp Asn Glu Val Leu Tyr Arg Ile Tyr Ala Ala Glu Pro Arg Ile Ile
 1445 1450 1455
 Pro Gln Thr Ser Leu Cys Leu Leu Trp Asn Gln Ala Ala Ala Ser Trp
 1460 1465 1470
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr
 1475 1480 1485
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg
 1490 1495 1500
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe
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 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys
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 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala
 1540 1545 1550
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser
 1555 1560 1565
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His
 1570 1575 1580

Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn
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 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr
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 Leu Leu Phe Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile
 1620 1625 1630
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln
 1635 1640 1645
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 Val Phe Val Val Phe Ile His Ala Tyr Gln Val Lys Pro Gln Trp Lys
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 Ala Tyr Asp Asp Val Phe Arg Gly Arg Thr Asn Ala Ala Glu Ile Pro
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 Leu Ile Leu Tyr Leu Phe Ala Leu Ile Ser Val Thr Trp Leu Trp Gly
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 Gly Leu His Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val
 1730 1735 1740
 Ile Phe Asn Ser Leu Gln Leu Leu Tyr Pro Leu Phe Tyr Phe Leu Leu
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 1780 1785 1790
 Ile Asn Ile Ser Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro
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 1810 1815 1820
 His Leu Val Ser Arg Ile Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly
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 Val Ile Arg Phe Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn
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 Ser Thr Met Ile Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu
 1860 1865 1870
 Gly Glu Ile Gln Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu
 1875 1880 1885
 Ala Leu Leu Pro Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gly Leu
 1890 1895 1900
 Phe Tyr Phe Gly Glu Gly Glu Gly Gly Val Arg Thr Ile Ile Leu Thr
 1905 1910 1915 1920
 Ile Tyr Pro His Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys
 1925 1930 1935
 Leu His Leu Val Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp
 1940 1945 1950
 Val Thr Leu Thr Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln
 1955 1960 1965
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala
 1970 1975 1980
 Leu Glu Gly Pro Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly
 1985 1990 1995 2000
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp
 2005 2010 2015
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp
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 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val
 2035 2040 2045
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly
 2050 2055 2060
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr
 2065 2070 2075 2080
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile
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 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg
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 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro
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 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln
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 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala
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 Phe Pro Ser Pro Gly Trp Pro Glu Ala Phe Val Leu His Leu Ser Gly
 2290 2295 2300
 Val Gln Ser Ser Ala Pro Gly Gly Ala Gln Leu Arg Ser Gly Phe Ile
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 Val Ala Glu Ile Glu Pro Met Gly Val Phe Gln Phe Ser Thr Ser Ser
 2325 2330 2335
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 2340 2345 2350
 Gln Arg Leu Phe Gly Phe His Ser Asp Leu Ile Lys Val Ser Tyr Gln
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 Thr Thr Ala Gly Ser Ala Lys Pro Leu Glu Asp Phe Glu Pro Val Gln
 2370 2375 2380
 Asn Gly Glu Leu Phe Phe Gln Lys Phe Gln Thr Glu Val Asp Phe Glu
 2385 2390 2395 2400
 Ile Thr Ile Ile Asn Asp Gln Leu Ser Glu Ile Glu Glu Phe Phe Tyr
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 Ile Asn Leu Thr Ser Val Glu Ile Arg Gly Leu Gln Lys Phe Asp Val
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 Thr Thr Val Ala Val Ala Val Asp Thr Thr Leu Ile Pro Val Glu Thr
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 Glu Ser Thr Thr Tyr Leu Ser Thr Ser Lys Thr Thr Thr Ile Leu Gln
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 Pro Thr Asn Val Val Ala Ile Val Thr Glu Ala Thr Gly Val Ser Ala
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 Lys Pro Asp Val Ala Thr Val Thr Ala Asn Val Ser Ile His Gly Thr
 2530 2535 2540
 Phe Ser Leu Gly Pro Ser Ile Val Tyr Ile Glu Glu Glu Met Lys Asn
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 Gly Thr Phe Asn Thr Ala Glu Val Leu Ile Arg Arg Thr Gly Gly Phe
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 Thr Gly Asn Val Ser Ile Thr Val Lys Thr Phe Gly Glu Arg Cys Ala
 2580 2585 2590
 Gln Met Glu Pro Asn Ala Leu Pro Phe Arg Gly Ile Tyr Gly Ile Ser
 2595 2600 2605

Asn Leu Thr Trp Ala Val Glu Glu Glu Asp Phe Glu Glu Gln Thr Leu
 2610 2615 2620
 Thr Leu Ile Phe Leu Asp Gly Glu Arg Glu Arg Lys Val Ser Val Gln
 2625 2630 2635 2640
 Ile Leu Asp Asp Asp Glu Pro Glu Gly Gln Glu Phe Phe Tyr Val Phe
 2645 2650 2655
 Leu Thr Asn Pro Gln Gly Gly Ala Gln Ile Val Glu Gly Lys Asp Asp
 2660 2665 2670
 Thr Gly Phe Ala Ala Phe Ala Met Val Ile Ile Thr Gly Ser Asp Leu
 2675 2680 2685
 His Asn Gly Ile Ile Gly Phe Ser Glu Glu Ser Gln Ser Gly Leu Glu
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 Gln Pro Asn Arg Ala Phe Glu Asp Val Lys Val Phe Trp Arg Val Thr
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 Leu Asn Lys Thr Val Val Val Leu Gln Lys Asp Gly Val Asn Leu Met
 2740 2745 2750
 Glu Glu Leu Gln Ser Val Ser Gly Thr Thr Thr Cys Thr Met Gly Gln
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 Thr Lys Cys Phe Ile Ser Ile Glu Leu Lys Pro Glu Lys Val Pro Gln
 2770 2775 2780
 Val Glu Val Tyr Phe Phe Val Glu Leu Tyr Glu Ala Thr Ala Gly Ala
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 Ser Gly Thr Gly Leu Met Met Ser Val Asn Phe Ser Thr Gln Glu Leu
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 Arg Ser Ala Glu Thr Ile Gly Arg Thr Ile Ile Ser Pro Ala Ile Ser
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 Gly Lys Asp Phe Val Ile Thr Glu Gly Thr Leu Val Phe Glu Pro Gly
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 Leu Asn Ser Phe Pro Lys Arg Phe Gln Ile Val Leu Phe Asp Pro Lys
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 Gly Gly Ala Arg Ile Asp Lys Val Tyr Gly Thr Ala Asn Ile Thr Leu
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 Val Ser Asp Ala Asp Ser Gln Ala Ile Trp Gly Leu Ala Asp Gln Leu
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 His Gln Pro Val Asn Asp Asp Ile Leu Asn Arg Val Leu His Thr Ile
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 Met His Leu Ile Glu Lys Ile Thr Thr Glu Gly Lys Ile Gln Ala Phe
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 Ser Val Ala Ser Arg Thr Leu Phe Tyr Glu Ile Leu Cys Ser Leu Ile
 3010 3015 3020
 Asn Pro Lys Arg Lys Asp Thr Arg Gly Phe Ser His Phe Ala Glu Leu
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 Thr Glu Asn Phe Ala Phe Ser Leu Leu Thr Asn Val Thr Cys Gly Ser
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 Pro Gly Glu Lys Ser Lys Thr Ile Leu Asp Ser Cys Pro Tyr Leu Ser
 3060 3065 3070
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<212> Amino acid
<213> Homo sapiens
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<221> misc_feature
<222> (1)...(945)
<223> X = any amino acid or stop code
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			20					25					30		
Gly	Arg	Asp	Arg	Gly	Arg	Ser	His	Ala	Ala	Glu	Ala	Pro	Gly	Asp	Pro
		35					40					45			
Gln	Ala	Ala	Ala	Ser	Leu	Leu	Ala	Pro	Met	Asp	Val	Gly	Glu	Glu	Pro
	50					55					60				
Leu	Glu	Lys	Ala	Ala	Arg	Ala	Arg	Thr	Ala	Lys	Asp	Pro	Asn	Thr	Tyr
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Lys	Val	Leu	Ser	Leu	Val	Leu	Ser	Val	Cys	Val	Leu	Thr	Thr	Ile	Leu
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Cys	Lys	Gly	Arg	Cys	Phe	Glu	Arg	Thr	Phe	Gly	Asn	Cys	Arg	Cys	Asp
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Thr	Cys	Ile	Glu	Pro	Glu	His	Ile	Trp	Thr	Cys	Asn	Lys	Phe	Arg	Cys
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Leu	Gln	Leu	Pro	Lys	Asp	Glu	Arg	Pro	His	Phe	Tyr	Thr	Leu	Tyr	Leu
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Glu	Glu	Pro	Asp	Ser	Ser	Gly	His	Ser	Tyr	Gly	Pro	Val	Ser	Ser	Glu
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Ile	Ser	Asp	His	Gly	Met	Glu	Gln	Gly	Ser	Cys	Lys	Lys	Tyr	Ile	Tyr
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Leu	Asn	Lys	Tyr	Leu	Gly	Asp	Val	Lys	Asn	Ile	Lys	Val	Ile	Tyr	Gly
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Pro	Ala	Ala	Arg	Leu	Arg	Pro	Ser	Asp	Val	Pro	Asp	Lys	Tyr	Tyr	Ser

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 485 490 495
 Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His
 500 505 510
 Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro
 515 520 525
 Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser
 530 535 540
 Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe
 545 550 555 560
 Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe
 565 570 575
 Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr
 580 585 590
 Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys
 595 600 605
 Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val
 610 615 620
 Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys
 625 630 635 640
 Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu
 645 650 655
 Thr Val Ala Glu Glu Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly
 660 665 670
 Arg Pro Arg Val Leu Gln Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln
 675 680 685
 His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp
 690 695 700
 Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe
 705 710 715 720
 Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His
 725 730 735
 Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu
 740 745 750
 Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala
 755 760 765
 Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile
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 Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg
 785 790 795 800
 Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp
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 Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His
 820 825 830
 Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr
 835 840 845
 Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys
 850 855 860
 Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp
 865 870 875 880
 Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val
 885 890 895
 Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa
 900 905 910
 Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val
 915 920 925
 Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu
 930 935 940
 Asp
 945

<211> 217
 <212>Amino acid
 <213> Homo sapiens

<400> 1103
 Thr Val Pro Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro
 1 5 10 15
 Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg
 20 25 30
 Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg
 35 40 45
 Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn
 50 55 60
 Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn
 65 70 75 80
 Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr
 85 90 95
 Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu
 100 105 110
 Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His
 115 120 125
 Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser
 130 135 140
 Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala
 145 150 155 160
 Gly Gly Trp Gly Trp Phe Phe Asn Lys His Ala Leu Gln Arg Ala Pro
 165 170 175
 Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu
 180 185 190
 Ile Asn Tyr Gly Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu
 195 200 205
 Ala Ala Pro Pro Asn Lys His Arg Arg
 210 215 217

<210> 1104
 <211> 436
 <212>Amino acid
 <213> Homo sapiens

<400> 1104
 His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val
 1 5 10 15
 Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr
 20 25 30
 Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met
 35 40 45
 Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro
 50 55 60
 Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp
 65 70 75 80
 Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val
 85 90 95
 Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly
 100 105 110
 Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

```

      115      120      125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly
  130      135      140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala
  145      150      155      160
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu
      165      170      175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Leu Phe Ala
      180      185      190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu
      195      200      205
His Asp Thr His Asp Ala Leu Asn Val Val Val Gln Leu Glu Lys Gln
      210      215      220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp
  225      230      235      240
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu
      245      250      255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His
      260      265      270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu
      275      280      285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp
  290      295      300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr
  305      310      315      320
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly
      325      330      335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile
      340      345      350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala
      355      360      365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser
      370      375      380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp
  385      390      395      400
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala
      405      410      415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser
      420      425      430
Glu Ala Glu Cys
      435 436

```

<210> 1105

<211> 113

<212> Amino acid

<213> Homo sapiens

<400> 1105

```

Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Gln Arg Arg His Gln
  1      5      10      15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg
      20      25      30
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly
      35      40      45
Cys Glu Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu
      50      55      60
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala
      65      70      75      80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu

```

85 90 95
 Ser Arg Ile Arg Gly Met Arg Lys Leu Ser Pro Pro Gln Lys Lys Ser
 100 105 110
 Val
 113

<210> 1106
 <211> 464
 <212> Amino acid
 <213> Homo sapiens

<400> 1106
 Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala
 1 5 10 15
 Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu
 20 25 30
 Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile
 35 40 45
 Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn
 50 55 60
 Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met
 65 70 75 80
 Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu
 85 90 95
 Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro
 100 105 110
 Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys
 115 120 125
 Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu
 130 135 140
 Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu
 145 150 155 160
 Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg
 165 170 175
 Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp
 180 185 190
 Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp
 195 200 205
 Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser
 210 215 220
 Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr
 225 230 235 240
 Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln
 245 250 255
 Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser
 260 265 270
 Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr
 275 280 285
 Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp
 290 295 300
 Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln
 305 310 315 320
 Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro
 325 330 335
 Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser
 340 345 350
 Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro
 355 360 365
 Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu

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      370              375              380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp
385              390              395              400
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp
              405              410              415
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg
              420              425              430
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys
              435              440              445
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr
              450              455              460              464

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<210> 1107
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1107
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr
  1              5              10              15
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val
              20              25              30
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn
              35              40              45
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly
              50              55              60
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met
              65              70              75              80
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr
              85              90              95
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile
              100              105              110
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu
              115              120              125
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe
              130              135              140
Met Tyr Trp Ser Leu Arg Gly Gly Ser
145              150              153

```

<210> 1108
 <211> 506
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1108
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly
  1              5              10              15
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly
              20              25              30
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser
              35              40              45
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly

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<400> 1109

Arg	Pro	Leu	Leu	Arg	Leu	Ala	Glu	Leu	Pro	Asp	His	Cys	Tyr	Arg	Met
1				5					10					15	
Asn	Ser	Ser	Pro	Ala	Gly	Thr	Pro	Ser	Pro	Gln	Pro	Ser	Arg	Ala	Asn
			20					25					30		
Gly	Asn	Ile	Asn	Leu	Gly	Pro	Ser	Ala	Asn	Pro	Asn	Ala	Gln	Pro	Thr
		35				40					45				
Asp	Phe	Asp	Phe	Leu	Lys	Val	Ile	Gly	Lys	Gly	Asn	Tyr	Gly	Lys	Val
	50				55					60					
Leu	Leu	Ala	Lys	Arg	Lys	Ser	Asp	Gly	Ala	Phe	Tyr	Ala	Val	Lys	Val
	65				70				75					80	
Leu	Gln	Lys	Lys	Ser	Ile	Leu	Lys	Lys	Lys	Glu	Gln	Ser	His	Ile	Met
				85				90						95	
Ala	Glu	Arg	Ser	Val	Leu	Leu	Lys	Asn	Val	Arg	His	Pro	Phe	Leu	Val
			100					105					110		
Gly	Leu	Arg	Tyr	Ser	Phe	Gln	Thr	Pro	Glu	Lys	Leu	Tyr	Phe	Val	Leu
	115					120						125			
Asp	Tyr	Val	Asn	Gly	Gly	Glu	Leu	Phe	Phe	His	Leu	Gln	Arg	Glu	Arg
	130				135					140					
Arg	Phe	Leu	Glu	Pro	Arg	Ala	Arg	Phe	Tyr	Ala	Ala	Glu	Val	Ala	Ser
	145				150					155				160	
Ala	Ile	Gly	Tyr	Leu	His	Ser	Leu	Asn	Ile	Ile	Tyr	Arg	Asp	Leu	Lys
				165				170						175	
Pro	Glu	Asn	Ile	Leu	Leu	Asp	Cys	Gln	Gly	His	Val	Val	Leu	Thr	Asp
		180						185					190		
Phe	Gly	Leu	Cys	Lys	Glu	Gly	Val	Glu	Pro	Glu	Asp	Thr	Thr	Ser	Thr
	195					200						205			
Phe	Cys	Gly	Thr	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Val	Leu	Arg	Lys	Glu
	210					215					220				
Pro	Tyr	Asp	Arg	Ala	Val	Asp	Trp	Trp	Cys	Leu	Gly	Ala	Val	Leu	Tyr
	225				230				235					240	
Glu	Met	Leu	His	Gly	Leu	Pro	Pro	Phe	Tyr	Ser	Gln	Asp	Val	Ser	Gln
				245				250						255	
Met	Tyr	Glu	Asn	Ile	Leu	His	Gln	Pro	Leu	Gln	Ile	Pro	Gly	Gly	Arg
			260				265						270		
Thr	Val	Ala	Ala	Cys	Asp	Leu	Leu	Gln	Ser	Leu	Leu	His	Lys	Asp	Gln
		275				280						285			
Arg	Gln	Arg	Leu	Gly	Ser	Lys	Ala	Asp	Phe	Leu	Glu	Ile	Lys	Asn	His
	290					295					300				
Val	Phe	Phe	Ser	Pro	Ile	Asn	Trp	Asp	Asp	Leu	Tyr	His	Lys	Arg	Leu
	305				310					315				320	
Thr	Pro	Pro	Phe	Asn	Pro	Asn	Val	Thr	Gly	Pro	Ala	Asp	Leu	Lys	His
				325				330						335	
Phe	Asp	Pro	Glu	Phe	Thr	Gln	Glu	Ala	Val	Ser	Lys	Ser	Ile	Gly	Cys
		340					345						350		
Thr	Pro	Asp	Thr	Val	Ala	Ser	Ser	Ser	Gly	Ala	Ser	Ser	Ala	Phe	Leu
	355					360						365			
Gly	Phe	Ser	Tyr	Ala	Pro	Glu	Asp	Asp	Asp	Ile	Leu	Asp	Cys		
	370					375					380		382		

<210> 1110

<211> 535

<212> Amino acid

<213> Homo sapiens

<400> 1110
 Arg Pro Gln Thr Leu Lys Gly His Gln Glu Lys Ile Arg Gln Arg Gln
 1 5 10 15
 Ser Ile Leu Pro Pro Pro Gln Gly Pro Ala Pro Ile Pro Phe Gln His
 20 25 30
 Arg Gly Gly Asp Ser Pro Glu Ala Lys Asn Arg Val Gly Pro Gln Val
 35 40 45
 Pro Leu Ser Glu Pro Gly Phe Arg Arg Arg Glu Ser Gln Glu Glu Pro
 50 55 60
 Arg Ala Val Leu Ala Gln Lys Ile Glu Lys Glu Thr Gln Ile Leu Asn
 65 70 75 80
 Cys Ala Leu Asp Asp Ile Glu Trp Phe Val Ala Arg Leu Gln Lys Ala
 85 90 95
 Ala Glu Ala Phe Lys Gln Leu Asn Gln Arg Lys Lys Gly Lys Lys Lys
 100 105 110
 Gly Lys Lys Ala Pro Ala Glu Gly Val Leu Thr Leu Arg Ala Arg Pro
 115 120 125
 Pro Ser Glu Gly Glu Phe Ile Asp Cys Phe Gln Lys Ile Lys Leu Ala
 130 135 140
 Ile Asn Leu Leu Ala Lys Leu Gln Lys His Ile Gln Asn Pro Ser Ala
 145 150 155 160
 Ala Glu Leu Val His Phe Leu Phe Gly Pro Leu Asp Leu Ile Val Asn
 165 170 175
 Thr Cys Ser Gly Pro Asp Ile Ala Arg Ser Val Ser Cys Pro Leu Leu
 180 185 190
 Ser Arg Asp Ala Val Asp Phe Leu Arg Gly His Leu Val Pro Lys Glu
 195 200 205
 Met Ser Leu Trp Glu Ser Leu Gly Glu Ser Trp Met Arg Pro Arg Ser
 210 215 220
 Glu Trp Pro Arg Glu Pro Gln Val Pro Leu Tyr Val Pro Lys Phe His
 225 230 235 240
 Ser Gly Trp Glu Pro Pro Val Asp Val Leu Gln Glu Ala Pro Trp Glu
 245 250 255
 Val Glu Gly Leu Ala Ser Ala Pro Ile Glu Glu Val Ser Pro Val Ser
 260 265 270
 Arg Gln Ser Ile Arg Asn Ser Gln Lys His Ser Pro Thr Ser Glu Pro
 275 280 285
 Thr Pro Pro Gly Asp Ala Leu Pro Pro Val Ser Ser Pro His Thr His
 290 295 300
 Arg Gly Tyr Gln Pro Thr Pro Ala Met Ala Lys Tyr Val Lys Ile Leu
 305 310 315 320
 Tyr Asp Phe Thr Ala Arg Asn Ala Asn Glu Leu Ser Val Leu Lys Asp
 325 330 335
 Glu Val Leu Glu Val Leu Glu Asp Gly Arg Gln Trp Trp Lys Leu Arg
 340 345 350
 Ser Arg Ser Gly Gln Ala Gly Tyr Val Pro Cys Asn Ile Leu Gly Glu
 355 360 365
 Ala Arg Pro Glu Asp Ala Gly Ala Pro Phe Glu Gln Ala Gly Gln Lys
 370 375 380
 Tyr Trp Gly Pro Ala Ser Pro Thr His Lys Leu Pro Pro Ser Phe Pro
 385 390 395 400
 Gly Asn Lys Asp Glu Leu Met Gln His Met Asp Glu Val Asn Asp Glu
 405 410 415
 Leu Ile Arg Lys Ile Ser Asn Ile Arg Ala Gln Pro Gln Arg His Phe
 420 425 430
 Arg Val Glu Arg Ser Gln Pro Val Ser Gln Pro Leu Thr Tyr Glu Ser
 435 440 445
 Gly Pro Asp Glu Val Arg Ala Trp Leu Glu Ala Lys Ala Phe Ser Pro
 450 455 460
 Arg Ile Val Glu Asn Leu Gly Ile Leu Thr Gly Pro Gln Leu Phe Ser
 465 470 475 480
 Leu Asn Lys Glu Glu Leu Lys Lys Val Cys Gly Glu Glu Gly Val Arg
 485 490 495
 Val Tyr Ser Gln Leu Thr Met Gln Lys Ala Phe Leu Glu Lys Gln Gln

500 505 510
 Ser Gly Ser Glu Leu Glu Glu Leu Met Asn Lys Phe His Ser Met Asn
 515 520 525
 Gln Arg Arg Gly Glu Asp Ser
 530 535

<210> 1111

<211> 346

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> X = any amino acid or stop code

<400> 1111

Ala Trp His Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu
 1 5 10 15
 Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val
 20 25 30
 Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu
 35 40 45
 Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys
 50 55 60
 Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr
 65 70 75 80
 Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala
 85 90 95
 Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe
 100 105 110
 Gly Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser
 115 120 125
 Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly
 130 135 140
 Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu
 145 150 155 160
 Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly
 165 170 175
 Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu
 180 185 190
 Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile
 195 200 205
 Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr
 210 215 220
 Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro
 225 230 235 240
 Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly
 245 250 255
 Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Ala
 260 265 270
 Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His
 275 280 285
 Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser
 290 295 300
 Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu
 305 310 315 320
 Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu Xaa Thr Arg
 325 330 335

Gln Lys Val Gly Phe Cys Ile Arg His Leu
340 345 346

<210> 1112

<211> 647

<212> Amino acid

<213> Homo sapiens

<400> 1112

Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala
1 5 10 15
Val Gly Trp Leu Pro Leu Ala Gln Gln Pro Leu Pro Pro Ala Pro Gly
20 25 30
Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly
35 40 45
Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr
50 55 60
Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly
65 70 75 80
Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn
85 90 95
Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln
100 105 110
Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val
115 120 125
Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala
130 135 140
Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro
145 150 155 160
Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe
165 170 175
Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr
180 185 190
Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile
195 200 205
Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly
210 215 220
Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu
225 230 235 240
Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg
245 250 255
Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile
260 265 270
Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser
275 280 285
Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys
290 295 300
Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys
305 310 315 320
Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala
325 330 335
Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn
340 345 350
Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val
355 360 365
Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala
370 375 380
Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile
385 390 395 400

Ala Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Arg Ile Tyr His
 405 410 415
 Gln Asn Gln Arg Ala Asp Lys Arg Arg Ala Gln Gln Lys Val Arg Leu
 420 425 430
 Ala Arg Ile Arg Leu Ala Lys Ser Gly Thr Thr Asn Ala Phe Leu Gln
 435 440 445
 Tyr Lys Gln Asn Gly Gly Leu Glu Asp Ser Gly Ser Gly Glu Glu Gln
 450 455 460
 Ala Val Cys Val Arg Asn Arg Ser Ala Phe Glu Gln Gln His His His
 465 470 475 480
 Leu Leu His Cys Leu Glu Lys Thr Thr Cys His Glu Phe Thr Asp Glu
 485 490 495
 Leu Thr Phe Ser Glu Ala Leu Gly Ala Val Ser Pro Gly Gly Arg Thr
 500 505 510
 Ser Arg Ser Thr Ser Val Ser Ser Gln Pro Val Gly Pro Gly Ser Leu
 515 520 525
 Leu Ser Ser Cys Cys Pro Arg Arg Ala Lys Arg Arg Ala Ile Arg Leu
 530 535 540
 Ala Asn Ser Thr Ala Ser Val Ser Arg Gly Ser Met Gln Glu Leu Asp
 545 550 555 560
 Met Leu Ala Gly Leu Arg Arg Ser His Ala Pro Gln Ser Arg Ser Ser
 565 570 575
 Leu Asn Ala Lys Pro His Asp Ser Leu Asp Leu Asn Cys Asp Ser Gly
 580 585 590
 Asp Phe Val Ala Ala Ile Ile Ser Ile Pro Thr Pro Pro Ala Asn Thr
 595 600 605
 Pro Asp Glu Ser Gln Pro Ser Ser Pro Gly Gly Gly Gly Arg Ala Gly
 610 615 620
 Ser Thr Leu Arg Asn Ser Ser Leu Gly Thr Pro Cys Leu Phe Pro Glu
 625 630 635 640
 Thr Val Lys Ile Ser Ser Leu
 645 647

<210> 1113

<211> 220

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(220)

<223> X = any amino acid or stop code

<400> 1113

Gly Trp Gly Lys Pro Phe Lys Asp Trp Thr Thr Gly Gly Gln Asp Thr
 1 5 10 15
 Gly Gly Glu Pro Ala Leu Leu Val Gly Ala Gly Glu Gly Arg Ala Pro
 20 25 30
 Arg Leu Asn Cys Pro Ser Gly Gln Ile Arg Ser Pro Gly Pro Gly Asp
 35 40 45
 Leu Ser Ile Tyr Asp Asn Trp Ile Arg Tyr Phe Asn Arg Ser Ser Pro
 50 55 60
 Val Tyr Gly Leu Val Pro Arg Ser Lys Thr Ser Ala Arg Ile Tyr Pro
 65 70 75 80
 Thr Tyr His Thr Ala Phe Asp Thr Phe Asp Tyr Val Asp Lys Phe Leu
 85 90 95
 Asp Pro Gly Glu Glu Gly Asp Lys Gly His Pro Glu Thr Arg Thr Gly
 100 105 110
 Glu Ala Glu Asp Xaa Ala Leu Ala Leu Ser Pro Cys Arg Arg Phe Ser

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      115              120              125
Ser His Gln Ala Val Ala Arg Thr Ala Gly Ser Val Ile Leu Arg Leu
      130              135              140
Ser Asp Ser Phe Phe Leu Pro Leu Lys Val Ser Asp Tyr Ser Glu Thr
145              150              155              160
Leu Arg Ser Phe Leu Gln Ala Ala Gln Gln Asp Leu Gly Ala Leu Leu
      165              170              175
Glu Gln His Ser Ile Ser Leu Gly Pro Leu Val Thr Ala Val Glu Lys
      180              185              190
Phe Glu Ala Glu Ala Ala Ala Leu Gly Gln Arg Ile Ser Thr Leu Gln
      195              200              205
Lys Gly Ser Pro Asp Pro Leu Gln Val Arg Met Leu
      210              215              220

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<210> 1114
<211> 382
<212> Amino acid
<213> Homo sapiens

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      <400> 1114
Gly Ile Arg Gly Gly Gly Ser Leu Ala Ser Gly Gly Pro Gly Pro Gly
  1              5              10              15
His Ala Ser Leu Ser Gln Arg Leu Arg Leu Tyr Leu Ala Asp Ser Trp
      20              25              30
Asn Gln Cys Asp Leu Val Ala Leu Thr Cys Phe Leu Leu Gly Val Gly
      35              40              45
Cys Arg Leu Thr Pro Gly Leu Tyr His Leu Gly Arg Thr Val Leu Cys
      50              55              60
Ile Asp Phe Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val
      65              70              75              80
Asn Lys Gln Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys
      85              90              95
Asp Val Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr
      100              105              110
Gly Val Ala Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro
      115              120              125
Ser Ile Leu Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly
      130              135              140
Gln Ile Pro Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn
145              150              155              160
Cys Ser Ser Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala
      165              170              175
Gly Thr Cys Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu
      180              185              190
Val Ile Phe Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile
      195              200              205
Ala Met Phe Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu
      210              215              220
Tyr Trp Lys Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg
225              230              235              240
Pro Ala Leu Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu
      245              250              255
Leu Arg Gln Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro
      260              265              270
Ala Leu Glu His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys
      275              280              285
Leu Leu Thr Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg
      290              295              300
Ala Arg Asp Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser

```

```

305          310          315          320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr
          325          330          335
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg
          340          345          350
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro
          355          360          365
Pro Gly Gly Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
          370          375          380          382

```

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<210> 1115
<211> 109
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1115
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu
 1          5          10          15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala
          20          25          30
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys
          35          40          45
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser
          50          55          60
Ser Leu Arg Tyr Glu Leu Glu Glu Lys Ser Gln Ala Thr Gly Glu
          65          70          75          80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu
          85          90          95
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile
          100          105          109

```

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<210> 1116
<211> 679
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1116
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser
 1          5          10          15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu
          20          25          30
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala
          35          40          45
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val
          50          55          60
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys
          65          70          75          80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys
          85          90          95
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly
          100          105          110
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser
          115          120          125
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Lys

```

130						135						140				
Ile	Arg	His	Phe	Val	Ser	Leu	Lys	Lys	Leu	Cys	Cys	Thr	Thr	Asp	Asn	
145						150				155					160	
Asn	Lys	Gln	Ile	His	Lys	Ile	His	Arg	Asp	Ser	Gly	Asp	Asn	Ser	Gln	
				165					170					175		
Thr	Glu	Pro	His	Ser	Phe	Arg	Tyr	Lys	Asn	Arg	Arg	Lys	Glu	Ser	Ile	
			180					185					190			
Asp	Val	Lys	Ser	Ile	Ser	Ser	Arg	Gly	Ser	Asp	Ala	Pro	Ser	Leu	Gln	
		195					200					205				
Asn	Arg	Arg	Tyr	Pro	Ser	Met	Ala	Arg	Ile	His	Ser	Met	Thr	Ile	Glu	
		210				215						220				
Ala	Pro	Ile	Thr	Lys	Val	Ile	Asn	Ile	Ile	Asn	Ala	Ala	Gln	Glu	Asn	
225					230					235					240	
Ser	Pro	Val	Thr	Val	Ala	Glu	Ala	Leu	Asp	Arg	Val	Leu	Glu	Ile	Leu	
				245					250					255		
Arg	Thr	Thr	Glu	Leu	Tyr	Ser	Pro	Gln	Leu	Gly	Thr	Lys	Asp	Glu	Asp	
			260					265					270			
Pro	His	Thr	Ser	Asp	Leu	Val	Gly	Gly	Leu	Met	Thr	Asp	Gly	Leu	Arg	
		275					280					285				
Arg	Leu	Ser	Gly	Asn	Glu	Tyr	Val	Phe	Thr	Lys	Asn	Val	His	Gln	Ser	
	290					295					300					
His	Ser	His	Leu	Ala	Met	Pro	Ile	Thr	Ile	Asn	Asp	Val	Pro	Pro	Cys	
305					310					315					320	
Ile	Ser	Gln	Leu	Leu	Asp	Asn	Glu	Glu	Ser	Trp	Asp	Phe	Asn	Ile	Phe	
			325						330					335		
Glu	Leu	Glu	Ala	Ile	Thr	His	Lys	Arg	Pro	Leu	Val	Tyr	Leu	Gly	Leu	
			340					345					350			
Lys	Val	Phe	Ser	Arg	Phe	Gly	Val	Cys	Glu	Phe	Leu	Asn	Cys	Ser	Glu	
		355				360						365				
Thr	Thr	Leu	Arg	Ala	Trp	Phe	Gln	Val	Ile	Glu	Ala	Asn	Tyr	His	Ser	
		370				375						380				
Ser	Asn	Ala	Tyr	His	Asn	Ser	Thr	His	Ala	Ala	Asp	Val	Leu	His	Ala	
385					390					395					400	
Thr	Ala	Phe	Phe	Leu	Gly	Lys	Glu	Arg	Val	Lys	Gly	Ser	Leu	Asp	Gln	
			405						410					415		
Leu	Asp	Glu	Val	Ala	Ala	Leu	Ile	Ala	Ala	Thr	Val	His	Asp	Val	Asp	
			420					425					430			
His	Pro	Gly	Arg	Thr	Asn	Ser	Phe	Leu	Cys	Asn	Ala	Gly	Ser	Glu	Leu	
		435					440					445				
Ala	Val	Leu	Tyr	Asn	Asp	Thr	Ala	Val	Leu	Glu	Ser	His	His	Thr	Ala	
	450					455					460					
Leu	Ala	Phe	Gln	Leu	Thr	Val	Lys	Asp	Thr	Lys	Cys	Asn	Ile	Phe	Lys	
465					470					475					480	
Asn	Ile	Asp	Arg	Gly	Asn	His	Tyr	Arg	Thr	Leu	Arg	Gln	Ala	Ile	Ile	
			485						490					495		
Asp	Met	Val	Leu	Ala	Thr	Glu	Met	Thr	Lys	His	Phe	Glu	His	Val	Asn	
		500					505					510				
Lys	Phe	Val	Asn	Ser	Ile	Asn	Lys	Pro	Met	Ala	Ala	Glu	Ile	Glu	Gly	
		515					520					525				
Ser	Asp	Cys	Glu	Cys	Asn	Pro	Ala	Gly	Lys	Asn	Phe	Pro	Glu	Asn	Gln	
	530					535					540					
Ile	Leu	Ile	Lys	Arg	Met	Met	Ile	Lys	Cys	Ala	Asp	Val	Ala	Asn	Pro	
545					550					555					560	
Cys	Arg	Pro	Leu	Asp	Leu	Cys	Ile	Glu	Trp	Ala	Gly	Arg	Ile	Ser	Glu	
			565						570					575		
Glu	Tyr	Phe	Ala	Gln	Thr	Asp	Glu	Glu	Lys	Arg	Gln	Gly	Leu	Pro	Val	
			580					585					590			
Val	Met	Pro	Val	Phe	Asp	Arg	Asn	Thr	Cys	Ser	Ile	Pro	Lys	Ser	Gln	
		595					600					605				
Ile	Ser	Phe	Ile	Asp	Tyr	Phe	Ile	Thr	Asp	Met	Phe	Asp	Ala	Trp	Asp	
	610					615					620					
Ala	Phe	Ala	His	Leu	Pro	Ala	Leu	Met	Gln	His	Leu	Ala	Asp	Asn	Tyr	
625					630					635					640	
Lys	His	Trp	Lys	Thr	Leu	Asp	Asp	Leu	Lys	Cys	Lys	Ser	Leu	Arg	Leu	

				645						650					655				
Pro	Ser	Asp	Arg	Leu	Lys	Pro	Ser	His	Arg	Gly	Gly	Leu	Leu	Thr	Asp				
				660				665							670				
Lys	Gly	His	Cys	Glu	Ser	Gln													
				675				679											

<210> 1117

<211> 1193

<212>Amino acid

<213> Homo sapiens

<400> 1117

Ala	Phe	Leu	Ser	Lys	Val	Glu	Glu	Asp	Asp	Tyr	Pro	Ser	Glu	Glu	Leu				
1				5					10					15					
Leu	Glu	Asp	Glu	Asn	Ala	Ile	Asn	Ala	Lys	Arg	Ser	Lys	Glu	Lys	Asn				
			20					25					30						
Pro	Gly	Asn	Gln	Gly	Arg	Gln	Phe	Asp	Val	Asn	Leu	Gln	Val	Pro	Asp				
		35					40					45							
Arg	Ala	Val	Leu	Gly	Thr	Ile	His	Pro	Asp	Pro	Glu	Ile	Glu	Glu	Ser				
	50					55					60								
Lys	Gln	Glu	Thr	Ser	Met	Ile	Leu	Asp	Ser	Glu	Lys	Thr	Ser	Glu	Thr				
	65				70					75				80					
Ala	Ala	Lys	Gly	Val	Asn	Thr	Gly	Gly	Arg	Glu	Pro	Asn	Thr	Met	Val				
				85				90						95					
Glu	Lys	Glu	Arg	Pro	Leu	Ala	Asp	Lys	Lys	Ala	Gln	Arg	Pro	Phe	Glu				
		100						105					110						
Arg	Ser	Asp	Phe	Ser	Asp	Ser	Ile	Lys	Ile	Gln	Thr	Pro	Glu	Leu	Gly				
		115					120					125							
Glu	Val	Phe	Gln	Asn	Lys	Asp	Ser	Asp	Tyr	Leu	Lys	Asn	Asp	Asn	Pro				
	130					135				140									
Glu	Glu	His	Leu	Lys	Thr	Ser	Gly	Leu	Ala	Gly	Glu	Pro	Glu	Gly	Glu				
	145				150				155					160					
Leu	Ser	Lys	Glu	Asp	His	Glu	Asn	Thr	Glu	Lys	Tyr	Met	Gly	Thr	Glu				
			165						170				175						
Ser	Gln	Gly	Ser	Ala	Ala	Ala	Glu	Pro	Glu	Asp	Asp	Ser	Phe	His	Trp				
		180						185				190							
Thr	Pro	His	Thr	Ser	Val	Glu	Pro	Gly	His	Ser	Asp	Lys	Arg	Glu	Asp				
		195				200						205							
Leu	Leu	Ile	Ile	Ser	Ser	Phe	Lys	Glu	Gln	Gln	Ser	Leu	Gln	Arg					
	210					215				220									
Phe	Gln	Lys	Tyr	Phe	Asn	Val	His	Glu	Leu	Glu	Ala	Leu	Leu	Gln	Glu				
	225				230				235					240					
Met	Ser	Ser	Lys	Leu	Lys	Ser	Ala	Gln	Gln	Glu	Ser	Leu	Pro	Tyr	Asn				
			245					250				255							
Met	Glu	Lys	Val	Leu	Asp	Lys	Val	Phe	Arg	Ala	Ser	Glu	Ser	Gln	Ile				
		260						265				270							
Leu	Ser	Ile	Ala	Glu	Lys	Met	Leu	Asp	Thr	Arg	Val	Ala	Glu	Asn	Arg				
		275				280					285								
Asp	Leu	Gly	Met	Asn	Glu	Asn	Asn	Ile	Phe	Glu	Glu	Ala	Ala	Val	Leu				
	290				295						300								
Asp	Asp	Ile	Gln	Asp	Leu	Ile	Tyr	Phe	Val	Arg	Tyr	Lys	His	Ser	Thr				
	305				310					315				320					
Ala	Glu	Glu	Thr	Ala	Thr	Leu	Val	Met	Ala	Pro	Pro	Leu	Glu	Glu	Gly				
			325					330					335						
Leu	Gly	Gly	Ala	Met	Glu	Glu	Met	Gln	Pro	Leu	His	Glu	Asp	Asn	Phe				
		340						345				350							
Ser	Arg	Glu	Lys	Thr	Ala	Glu	Leu	Asn	Val	Gln	Val	Pro	Glu	Glu	Pro				
		355				360					365								
Thr	His	Leu	Asp	Gln	Arg	Val	Ile	Gly	Asp	Thr	His	Ala	Ser	Glu	Val				

370	375	380
Ser Gln Lys Pro Asn Thr Glu Lys Asp Leu Asp Pro Gly Pro Val Thr		
385	390	395
Thr Glu Asp Thr Pro Met Asp Ala Ile Asp Ala Asn Lys Gln Pro Glu		400
	405	410
Thr Ala Ala Glu Glu Pro Ala Ser Val Thr Pro Leu Glu Asn Ala Ile		415
	420	425
Leu Leu Ile Tyr Ser Phe Met Phe Tyr Leu Thr Lys Ser Leu Val Ala		430
	435	440
Thr Leu Pro Asp Asp Val Gln Pro Gly Pro Asp Phe Tyr Gly Leu Pro		445
	450	455
Trp Lys Pro Val Phe Ile Thr Ala Phe Leu Gly Ile Ala Ser Phe Ala		460
465	470	475
Ile Phe Leu Trp Arg Thr Val Leu Val Val Lys Asp Arg Val Tyr Gln		480
	485	490
Val Thr Glu Gln Ile Ser Glu Lys Leu Lys Thr Ile Met Lys Glu		495
	500	505
Asn Thr Glu Leu Val Gln Lys Leu Ser Asn Tyr Glu Gln Lys Ile Lys		510
	515	520
Glu Ser Lys Lys His Val Gln Glu Thr Arg Lys Gln Asn Met Ile Leu		525
	530	535
Ser Asp Glu Ala Ile Lys Tyr Lys Asp Lys Ile Lys Thr Leu Glu Lys		540
545	550	555
Asn Gln Glu Ile Leu Asp Asp Thr Ala Lys Asn Leu Arg Val Met Leu		560
	565	570
Glu Ser Glu Arg Glu Gln Asn Val Lys Asn Gln Asp Leu Ile Ser Glu		575
	580	585
Asn Lys Lys Ser Ile Glu Lys Leu Lys Asp Val Ile Ser Met Asn Ala		590
	595	600
Ser Glu Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser		605
	610	615
Glu Glu Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala		620
625	630	635
Arg Leu Lys Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp		640
	645	650
Ser Lys Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys		655
	660	665
Ser Gln Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile		670
	675	680
Asn Ala Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu		685
	690	695
Ser Glu Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu		700
705	710	715
Ala Asn Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln		720
	725	730
Ile Lys Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val		735
	740	745
Val Glu Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val		750
	755	760
Ser Thr Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp		765
	770	775
Arg Asn Ser Leu Gln Ala Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys		780
785	790	795
Thr Leu Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys		800
	805	810
Glu Met Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln		815
	820	825
Glu Arg Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala		830
	835	840
Ala Glu Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp		845
	850	855
Glu Leu Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His		860
865	870	875
Glu Lys Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg		880

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      885      890      895
Ala Ile Ala Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu
      900      905      910
Leu Asp Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile
      915      920      925
Val Lys Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg
      930      935      940
Gly Pro Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly
945      950      955      960
Gly Glu Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu
      965      970      975
Ser Ala Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser
      980      985      990
Leu Asp Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly
      995      1000      1005
Lys Pro Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn
      1010      1015      1020
Ser Ser Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys
1025      1030      1035      1040
Val Asn Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu
      1045      1050      1055
Met Ser Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly
      1060      1065      1070
Pro Pro Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg Pro Leu Pro Pro
      1075      1080      1085
Pro Phe Gly Pro Gly Met Arg Pro Pro Leu Gly Leu Arg Glu Phe Ala
      1090      1095      1100
Pro Gly Val Pro Pro Gly Arg Arg Asp Leu Pro Leu His Pro Arg Gly
1105      1110      1115      1120
Phe Leu Pro Gly His Ala Pro Phe Arg Pro Leu Gly Ser Leu Gly Pro
      1125      1130      1135
Arg Glu Tyr Phe Ile Pro Gly Thr Arg Leu Pro Pro Pro Thr His Gly
      1140      1145      1150
Pro Gln Glu Tyr Pro Pro Pro Pro Ala Val Arg Asp Leu Leu Pro Ser
      1155      1160      1165
Gly Ser Arg Asp Glu Pro Pro Ala Ser Gln Ser Thr Ser Gln Asp
      1170      1175      1180
Cys Ser Gln Ala Leu Lys Gln Ser Pro
1185      1190      1193

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<210> 1118

<211> 981

<212> Amino acid

<213> Homo sapiens

<400> 1118

```

Met Ala Ala Asp Ser Glu Pro Glu Ser Glu Val Phe Glu Ile Thr Asp
1      5      10      15
Phe Thr Thr Ala Ser Glu Trp Glu Arg Phe Ile Ser Lys Val Glu Glu
      20      25      30
Val Leu Asn Asp Trp Lys Leu Ile Gly Asn Ser Leu Gly Lys Pro Leu
      35      40      45
Glu Lys Gly Ile Phe Thr Ser Gly Thr Trp Glu Glu Lys Ser Asp Glu
      50      55      60
Ile Ser Phe Ala Asp Phe Lys Phe Ser Val Thr His His Tyr Leu Val
      65      70      75      80
Gln Glu Ser Thr Asp Lys Glu Gly Lys Asp Glu Leu Leu Glu Asp Val
      85      90      95
Val Pro Gln Ser Met Gln Asp Leu Leu Gly Met Asn Asn Asp Phe Pro

```

Pro	Arg	Ala	His	Cys	Leu	Val	Arg	Trp	Tyr	Gly	Leu	Arg	Glu	Phe	Val
		115					120					125			
Val	Ile	Ala	Pro	Ala	Ala	His	Ser	Asp	Ala	Val	Leu	Ser	Glu	Ser	Lys
	130					135					140				
Cys	Asn	Leu	Leu	Leu	Ser	Ser	Val	Ser	Ile	Ala	Leu	Gly	Asn	Thr	Gly
145					150					155					160
Cys	Gln	Val	Pro	Leu	Phe	Val	Gln	Ile	His	His	Lys	Trp	Arg	Arg	Met
				165					170					175	
Tyr	Val	Gly	Glu	Cys	Gln	Gly	Pro	Gly	Val	Arg	Thr	Asp	Phe	Glu	Met
			180					185					190		
Val	His	Leu	Arg	Lys	Val	Pro	Asn	Gln	Tyr	Thr	His	Leu	Ser	Gly	Leu
	195						200					205			
Leu	Asp	Ile	Phe	Lys	Ser	Lys	Ile	Gly	Cys	Pro	Leu	Thr	Pro	Leu	Pro
210						215						220			
Pro	Val	Ser	Ile	Ala	Ile	Arg	Phe	Thr	Tyr	Val	Leu	Gln	Asp	Trp	Gln
225					230					235					240
Gln	Tyr	Phe	Trp	Pro	Gln	Gln	Pro	Pro	Asp	Ile	Asp	Ala	Leu	Val	Gly
				245					250					255	
Gly	Glu	Val	Gly	Gly	Leu	Glu	Phe	Gly	Lys	Leu	Pro	Phe	Gly	Ala	Cys
			260					265					270		
Glu	Asp	Pro	Ile	Ser	Glu	Leu	His	Leu	Ala	Thr	Thr	Trp	Pro	His	Leu
	275						280					285			
Thr	Glu	Gly	Ile	Ile	Val	Asp	Asn	Asp	Val	Tyr	Ser	Asp	Leu	Asp	Pro
290					295						300				
Ile	Gln	Ala	Pro	His	Trp	Ser	Val	Arg	Val	Arg	Lys	Ala	Glu	Asn	Pro
305					310					315					320
Gln	Cys	Leu	Leu	Gly	Asp	Phe	Val	Thr	Glu	Phe	Phe	Lys	Ile	Cys	Arg
				325					330					335	
Arg	Lys	Glu	Ser	Thr	Asp	Glu	Ile	Leu	Gly	Arg	Ser	Ala	Phe	Glu	Glu
			340					345					350		
Glu	Gly	Lys	Glu	Thr	Ala	Asp	Ile	Thr	His	Ala	Leu	Ser	Lys	Leu	Thr
		355					360					365			
Glu	Pro	Ala	Ser	Val	Pro	Ile	His	Lys	Leu	Ser	Val	Ser	Asn	Met	Val
370						375					380				
His	Thr	Ala	Lys	Lys	Lys	Ile	Arg	Lys	His	Arg	Gly	Val	Glu	Glu	Ser
385					390					395					400
Pro	Leu	Asn	Asn	Asp	Val	Leu	Asn	Thr	Ile	Leu	Leu	Phe	Leu	Phe	Pro
			405						410				415		
Asp	Ala	Val	Ser	Glu	Lys	Pro	Leu	Asp	Gly	Thr	Thr	Ser	Thr	Asp	Asn
			420					425					430		
Asn	Asn	Pro	Pro	Ser	Glu	Ser	Glu	Asp	Tyr	Asn	Leu	Tyr	Asn	Gln	Phe
		435					440					445			
Lys	Ser	Ala	Pro	Ser	Asp	Ser	Leu	Thr	Tyr	Lys	Leu	Ala	Leu	Cys	Leu
450						455					460				
Cys	Met	Ile	Asn	Phe	Tyr	His	Gly	Gly	Leu	Lys	Gly	Val	Ala	His	Leu
465				470						475					480
Trp	Gln	Glu	Phe	Val	Leu	Glu	Met	Arg	Phe	Arg	Trp	Glu	Asn	Asn	Phe
			485						490					495	
Leu	Ile	Pro	Gly	Leu	Ala	Ser	Gly	Pro	Pro	Asp	Leu	Arg	Cys	Cys	Leu
		500						505					510		
Leu	His	Gln	Lys	Leu	Gln	Met	Leu	Asn	Cys	Cys	Ile	Glu	Arg	Lys	Lys
		515					520					525			
Ala	Arg	Asp	Glu	Gly	Lys	Lys	Thr	Ser	Ala	Ser	Asp	Val	Thr	Asn	Ile
	530					535					540				
Tyr	Pro	Gly	Asp	Ala	Gly	Lys	Ala	Gly	Asp	Gln	Leu	Val	Pro	Asp	Asn
545					550					555					560
Leu	Lys	Glu	Thr	Asp	Lys	Glu	Lys	Gly	Glu	Val	Gly	Lys	Ser	Trp	Asp
			565						570					575	
Ser	Trp	Ser	Asp	Ser	Glu	Glu	Glu	Phe	Phe	Glu	Cys	Leu	Ser	Asp	Thr
		580						585					590		
Glu	Glu	Leu	Lys	Gly	Asn	Gly	Gln	Glu	Ser	Gly	Lys	Lys	Gly	Gly	Pro
		595				600					605				
Lys	Glu	Met	Ala	Asn	Leu	Arg	Pro	Glu	Gly	Arg	Leu	Tyr	Gln	His	Gly

610		615		620
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr				
625		630		635
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu				
	645		650	655
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala				
	660		665	670
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala				
	675		680	685
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro				
	690		695	700
Arg Asp Tyr Ile Glu Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val				
705		710		715
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp				
	725		730	735
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg				
	740		745	750
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu				
	755		760	765
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val				
	770		775	780
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Glu Ser Leu Glu Asn				
785		790		795
Ile Ser Ser Val Lys Lys Ile Ile Lys Gln Ile Ile Ser His Ser Ser				
	805		810	815
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile				
	820		825	830
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser				
	835		840	845
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Lys				
	850		855	860
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val				
865		870		875
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys				
	885		890	895
Leu Phe Val Asn Ala Gln Arg Ala Ala Ala Met Thr Pro Pro Glu Glu				
	900		905	910
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val				
	915		920	925
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr				
	930		935	940
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr				
945		950		955
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser				
	965		970	975
Asp Thr Ser Phe Phe				
	980	981		

<210> 1119

<211> 554

<212> Amino acid

<213> Homo sapiens

<400> 1119

Ser Pro Thr Arg Thr Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu				
1	5	10	15	
Thr Glu Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu				
	20	25	30	
Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile				

649

545

550

554

<210> 1120
 <211> 107
 <212> Amino acid
 <213> Homo sapiens

<400> 1120
 Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln
 1 5 10 15
 Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly
 20 25 30
 Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile
 35 40 45
 Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val
 50 55 60
 Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu
 65 70 75 80
 Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro
 85 90 95
 Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe
 100 105 107

<210> 1121
 <211> 1241
 <212> Amino acid
 <213> Homo sapiens

<400> 1121
 Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val
 1 5 10 15
 Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro
 20 25 30
 Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val
 35 40 45
 Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly
 50 55 60
 Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln
 65 70 75 80
 Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu
 85 90 95
 His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val
 100 105 110
 Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met
 115 120 125
 Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu
 130 135 140
 Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr
 145 150 155 160
 Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser
 165 170 175
 Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val
 180 185 190
 Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

651

705					710					715				720
Gly	Arg	Arg	Phe	Arg	Glu	Ser	Cys	Val	Gly	His	Asp	Pro	Thr	Glu
				725					730					735
Leu	Glu	Val	Cys	Leu	Val	Ser	Ser	Glu	His	Tyr	Ala	Ala	Ser	Asp
			740					745					750	
Glu	Ser	Pro	Gly	His	Val	Pro	Ser	Thr	Leu	Asp	Ala	Gly	Pro	Glu
		755					760					765		
Thr	Cys	Pro	Ser	Ala	Glu	Glu	Pro	Arg	Leu	Asn	Val	Gln	Val	Thr
	770					775					780			
Thr	Pro	Val	Ile	Val	Met	Arg	Gly	Ala	Ala	Gly	Leu	Gln	Arg	Glu
785					790					795				800
Gln	Glu	Gly	Ala	Tyr	Ser	Gly	Ser	Cys	Tyr	His	Arg	Asp	Gly	Leu
			805					810						815
Leu	Ser	Ile	Gln	Phe	Glu	Val	Arg	Arg	Val	Glu	Leu	Gln	Gly	Pro
			820					825					830	
Pro	Leu	Phe	Cys	Cys	Trp	Leu	Val	Lys	Asp	Leu	Leu	His	Ser	Gln
		835					840					845		
Asp	Ser	Ala	Ala	Arg	Thr	Arg	Leu	Phe	Leu	Ala	Ser	Leu	Pro	Gly
	850					855					860			
Thr	His	Ser	Thr	Ala	Ala	Glu	Leu	Thr	Gly	Pro	Ser	Leu	Val	Glu
865					870					875				880
Leu	Arg	Ala	Arg	Pro	Trp	Phe	Glu	Glu	Pro	Lys	Ala	Val	Glu	Leu
			885						890					895
Glu	Gly	Leu	Ala	Cys	Glu	Gly	Glu	Tyr	Ser	Gln	Lys	Tyr	Ser	Thr
		900					905					910		
Met	Ser	Pro	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Phe	Val	Trp	Thr	Ala
	915					920					925			
Asp	Lys	Glu	Lys	Asn	Lys	Glu	Val	Val	Val	Lys	Phe	Ile	Lys	Lys
	930					935					940			
Lys	Val	Leu	Glu	Asp	Cys	Trp	Ile	Glu	Asp	Pro	Lys	Leu	Gly	Lys
945					950					955				960
Thr	Leu	Glu	Ile	Ala	Ile	Leu	Ser	Arg	Val	Glu	His	Ala	Asn	Ile
			965						970					975
Lys	Val	Leu	Asp	Ile	Phe	Glu	Asn	Gln	Gly	Phe	Phe	Gln	Leu	Val
		980						985					990	
Glu	Lys	His	Gly	Ser	Gly	Leu	Asp	Leu	Phe	Ala	Phe	Ile	Asp	Arg
	995					1000					1005			
Pro	Arg	Leu	Asp	Glu	Pro	Leu	Ala	Ser	Tyr	Ile	Phe	Arg	Gln	Val
	1010					1015					1020			
Ala	Gly	Gln	Ser	Arg	Leu	Val	Ser	Ala	Val	Gly	Tyr	Leu	Arg	Leu
1025					1030					1035				1040
Asp	Ile	Ile	His	Arg	Asp	Ile	Lys	Asp	Glu	Asn	Ile	Val	Ile	Ala
			1045					1050						1055
Asp	Phe	Thr	Ile	Lys	Leu	Ile	Asp	Phe	Gly	Ser	Ala	Ala	Tyr	Leu
		1060					1065					1070		
Arg	Gly	Lys	Leu	Phe	Tyr	Thr	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Cys
	1075					1080					1085			
Pro	Glu	Val	Leu	Met	Gly	Asn	Pro	Tyr	Arg	Gly	Pro	Glu	Leu	Glu
	1090				1095					1100				
Trp	Ser	Leu	Gly	Val	Thr	Leu	Tyr	Thr	Leu	Val	Phe	Glu	Glu	Asn
1105				1110					1115					1120
Phe	Cys	Glu	Leu	Glu	Thr	Val	Glu	Ala	Ala	Ile	His	Pro	Pro	Tyr
			1125					1130					1135	
Leu	Val	Ser	Lys	Glu	Leu	Met	Ser	Leu	Val	Ser	Gly	Leu	Leu	Gln
		1140					1145					1150		
Val	Pro	Glu	Arg	Arg	Thr	Thr	Leu	Glu	Lys	Leu	Val	Thr	Asp	Pro
	1155					1160					1165			
Val	Thr	Gln	Pro	Val	Asn	Leu	Ala	Asp	Tyr	Thr	Trp	Glu	Glu	Val
	1170				1175				1180					
Arg	Val	Asn	Lys	Pro	Glu	Ser	Gly	Val	Leu	Ser	Ala	Ala	Ser	Leu
1185				1190					1195					1200
Met	Gly	Asn	Arg	Ser	Leu	Ser	Asp	Val	Ala	Gln	Ala	Gln	Glu	Leu
			1205					1210					1215	
Gly	Gly	Pro	Val	Pro	Gly	Glu	Ala	Pro	Asn	Gly	Gln	Gly	Cys	Leu

1220 1225 1230
 Pro Gly Asp Pro Arg Leu Leu Thr Ser
 1235 1240 1241

<210> 1122
 <211> 395
 <212> Amino acid
 <213> Homo sapiens

<400> 1122
 Pro Gly Thr Ser Ala Ala Thr Cys Arg Phe Leu Ser Pro Pro Val Ile
 1 5 10 15
 Ser Leu Ser Phe Thr Gly Leu Cys Ile Ser Asp Leu Val Val Ala Val
 20 25 30
 Asn Gly Val Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn
 35 40 45
 Phe Phe Ser Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile
 50 55 60
 Tyr Gly Val Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu
 65 70 75 80
 Tyr Leu Ser Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe
 85 90 95
 Ala Phe Leu Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr
 100 105 110
 Phe Ile Val Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu
 115 120 125
 Lys Glu Arg Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro
 130 135 140
 Arg Met Ala Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe
 145 150 155 160
 Ala Ile Val Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys
 165 170 175
 Cys Asn Thr Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr
 180 185 190
 Val Gly Asn Arg Thr Val Val Glu Glu Gly Tyr Tyr Tyr Leu Asn Asn
 195 200 205
 Phe Asp Asn Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val
 210 215 220
 Val Asn Asn Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser
 225 230 235 240
 His Trp Ser Arg Leu Tyr Phe Met Thr Phe Tyr Ile Val Thr Met Val
 245 250 255
 Val Met Thr Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg
 260 265 270
 Met Asn Tyr Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile
 275 280 285
 Thr Leu Glu Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu
 290 295 300
 Leu Tyr Arg Glu Ala Arg Gly Ala Ser Ser Asp Val Thr Arg Leu Leu
 305 310 315 320
 Glu Thr Leu Ser Gln Met Glu Arg Tyr Gln Gln His Ser Met Val Phe
 325 330 335
 Leu Gly Arg Arg Ser Arg Thr Lys Ser Asp Leu Ser Leu Lys Met Tyr
 340 345 350
 Gln Glu Glu Ile Gln Glu Trp Tyr Glu Glu His Ala Arg Glu Gln Glu
 355 360 365
 Gln Gln Arg Gln Leu Ser Ser Ser Ala Ala Pro Ala Ala Gln Gln Pro
 370 375 380
 Pro Gly Ser Arg Gln Arg Ser Gln Thr Val Thr

385

390

395

<210> 1123
 <211> 328
 <212>Amino acid
 <213> Homo sapiens

<400> 1123
 Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu
 1 5 10 15
 Met Ala Ala Gly Gln Asn Gly His Glu Glu Trp Val Gly Ser Ala Tyr
 20 25 30
 Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr
 35 40 45
 Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala
 50 55 60
 Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile
 65 70 75 80
 His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg
 85 90 95
 Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg
 100 105 110
 Ala Ala Leu Gln Arg Ser Leu Ala Ala Ala Leu Ala Gln His Ser Val
 115 120 125
 Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu
 130 135 140
 Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro
 145 150 155 160
 Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg
 165 170 175
 Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala
 180 185 190
 Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro
 195 200 205
 Pro Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro
 210 215 220
 Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg
 225 230 235 240
 Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly
 245 250 255
 Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr
 260 265 270
 Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe
 275 280 285
 Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala
 290 295 300
 Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu
 305 310 315 320
 Thr Asp Pro Asn Gly Gly Leu Ala
 325 328

<210> 1124
 <211> 667
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(667)

<223> X = any amino acid or stop code

<400> 1124

```

Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly
 1           5           10           15
Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr
           20           25           30
Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro
           35           40           45
Pro Val Leu Gly Gly Asn Ser Asn Ser Asn Ser Ser Gly Gly Ala Gly
 50           55           60
Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg
 65           70           75           80
Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Gly Ala
           85           90           95
Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe
           100          105          110
Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly
           115          120          125
Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gly Gln Pro Gln Trp
           130          135          140
Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly Gly
145           150          155          160
Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu
           165          170          175
Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Thr Ala Leu
           180          185          190
Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro
           195          200          205
Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp
           210          215          220
Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr
225           230          235          240
Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu
           245          250          255
Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser
           260          265          270
Glu Ser Leu Pro Ser Gln Asp Leu Leu Leu Gly Pro Ser Glu Ser Asn
           275          280          285
Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser
           290          295          300
Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp
305           310          315          320
Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu
           325          330          335
Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro
           340          345          350
Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly
           355          360          365
Glu Pro Glu Gly Gly Glu Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp
           370          375          380
Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr
385           390          395          400
Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr
           405          410          415
Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys
           420          425          430
His Leu Arg Leu Ser Leu Asn Glu Glu Gly Gln Cys Arg Val Gln His
           435          440          445

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Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His
 450          455          460
Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser
465          470          475          480
Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala
          485          490          495
Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu
          500          505          510
Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala
          515          520          525
Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr
          530          535          540
Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro
545          550          555          560
Pro Gln Pro Gly Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly
          565          570          575
Gln Gln Ala Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala
          580          585          590
Gly Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val
          595          600          605
Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala
610          615          620
Gln Gly Arg Leu Gly Pro Gly Gly Asp Ala Gly Val Pro Pro Met Val
625          630          635          640
Gln Leu Gln Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly Gly His
          645          650          655
Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val
          660          665          667

```

<210> 1125

<211> 387

<212> Amino acid

<213> Homo sapiens

<400> 1125

```

Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile
 1          5          10          15
Arg Arg Leu Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu
20          25          30
Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu
35          40          45
Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn
50          55          60
Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe
65          70          75          80
Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys
          85          90          95
Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu
100          105          110
Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu
115          120          125
Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu
130          135          140
Glu Lys Arg Glu Glu Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu
145          150          155          160
Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys
          165          170          175
Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile
180          185          190

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```
<210> 1126
<211> 208
<212> Amino acid
<213> Homo sapiens
```

657 ·

<210> 1127
 <211> 670
 <212> Amino acid
 <213> Homo sapiens

<400> 1127
 Phe Arg Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser
 1 5 10 15
 Gly Glu Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys
 20 25 30
 Lys Asp Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro
 35 40 45
 Asp Glu Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln
 50 55 60
 Cys Asp Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys
 65 70 75 80
 Val Asn Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser
 85 90 95
 Gly Glu Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys
 100 105 110
 Arg Asp Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys
 115 120 125
 Leu Asp Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile
 130 135 140
 Gly Tyr Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg
 145 150 155 160
 Arg Cys Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln
 165 170 175
 Leu Cys Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly
 180 185 190
 Phe Gln Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile
 195 200 205
 Ala Tyr Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu
 210 215 220
 Asp Arg Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val
 225 230 235 240
 Ala Leu Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu
 245 250 255
 Ser Gln Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val
 260 265 270
 Ser Ser Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly
 275 280 285
 Leu Ala Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val
 290 295 300
 Leu Gly Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr
 305 310 315 320
 Leu Phe Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro
 325 330 335
 Val His Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile
 340 345 350
 Lys Lys Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu
 355 360 365
 Asn Ile Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg
 370 375 380
 Leu Tyr Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val
 385 390 395 400

```

Asn Gly Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala
      405                      410                      415
His Pro Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp
      420                      425                      430
Ile Ile Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp
      435                      440                      445
Val Asn Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu
      450                      455                      460
Phe His Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr
465      470                      475                      480
Thr Leu Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln
      485                      490                      495
Ile Asn Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met
      500                      505                      510
Leu Leu Ala Arg Asp Met Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala
      515                      520                      525
Val Ala Thr Gln Glu Thr Ser Thr Val Arg Leu Lys Val Ser Ser Thr
      530                      535                      540
Ala Val Arg Thr Gln His Thr Thr Thr Arg Pro Val Pro Asp Thr Ser
545      550                      555                      560
Arg Leu Pro Gly Ala Thr Pro Gly Leu Thr Thr Val Glu Ile Val Thr
      565                      570                      575
Met Ser His Gln Ala Leu Gly Asp Val Ala Gly Arg Gly Asn Glu Lys
      580                      585                      590
Lys Pro Ser Ser Val Arg Ala Leu Ser Ile Val Leu Pro Ile Val Leu
      595                      600                      605
Leu Val Phe Leu Cys Leu Gly Val Phe Leu Leu Trp Lys Asn Trp Arg
      610                      615                      620
Leu Lys Asn Ile Asn Ser Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys
625      630                      635                      640
Thr Thr Glu Asp Glu Val His Ile Cys His Asn Gln Asp Gly Tyr Ser
      645                      650                      655
Tyr Pro Ser Arg Gln Met Val Ser Leu Glu Asp Asp Val Ala
      660                      665                      670

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<210> 1128

<211> 383

<212>Amino acid

<213> Homo sapiens

<400> 1128

```

Arg Ile Pro Gly Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His
  1      5      10      15
Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly
      20      25      30
Pro Arg Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg
      35      40      45
Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala
      50      55      60
Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser
      65      70      75      80
Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met
      85      90      95
Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met
      100     105     110
Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu
      115     120     125
Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu
      130     135     140

```


Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu
 145 150 155 160
 Gly Gln Ser Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala
 165 170 175
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys
 180 185 190
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala
 195 200 205
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro
 210 215 220
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn
 225 230 235 240
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala
 245 250 255
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala
 260 265 270
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu
 275 280 285
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser
 290 295 300
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln
 305 310 315 320
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr
 325 330 335
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu
 340 345 350
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu
 355 360 365
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp
 370 375 380 383

<210> 1129

<211> 174

<212> Amino acid

<213> Homo sapiens

<400> 1129

Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg
 1 5 10 15
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr
 20 25 30
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro
 35 40 45
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp
 50 55 60
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro
 65 70 75 80
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly
 85 90 95
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys
 100 105 110
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met
 115 120 125
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu
 130 135 140
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro
 145 150 155 160
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Glu Ala
 165 170 174

<210> 1130
 <211> 231
 <212>Amino acid
 <213> Homo sapiens

<400> 1130
 Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe
 1 5 10 15
 Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Thr Phe Leu Gly Gly
 20 25 30
 Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe
 35 40 45
 Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser
 50 55 60
 Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly
 65 70 75 80
 Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn
 85 90 95
 Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser
 100 105 110
 Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala
 115 120 125
 Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr
 130 135 140
 Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro
 145 150 155 160
 Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val
 165 170 175
 Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg
 180 185 190
 Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His
 195 200 205
 Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn
 210 215 220
 Gly Asn Ser Thr Met Cys Pro
 225 230 231

<210> 1131
 <211> 234
 <212>Amino acid
 <213> Homo sapiens

<400> 1131
 Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg
 1 5 10 15
 Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu
 20 25 30
 Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly
 35 40 45
 Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala
 50 55 60
 Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys
 65 70 75 80

```

Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile
      85                      90                      95
Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe
      100                    105                    110
Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg
      115                    120                    125
Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr
      130                    135                    140
Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu
      145                    150                    155                    160
Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln
      165                    170                    175
Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu
      180                    185                    190
Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala
      195                    200                    205
Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val
      210                    215                    220
Ala Ser Thr Thr Ser Ser Ser Glu Ser Leu
      225                    230                    234

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<210> 1132
<211> 270
<212> Amino acid
<213> Homo sapiens

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<400> 1132
Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser
  1      5      10      15
Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser
      20      25      30
Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val
      35      40      45
Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile
      50      55      60
Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr
      65      70      75      80
Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln
      85      90      95
Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met
      100     105     110
Asp Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg
      115     120     125
Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys
      130     135     140
Val Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu
      145     150     155     160
Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser
      165     170     175
Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile
      180     185     190
Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu
      195     200     205
Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
      210     215     220
Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
      225     230     235     240
Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
      245     250     255

```

Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp
 260 265 270

<210> 1133
 <211> 204
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(204)
 <223> X = any amino acid or stop code

<400> 1133
 Pro Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys
 1 5 10 15
 Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Thr
 20 25 30
 Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser
 35 40 45
 Ala Pro Val Val Phe Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met
 50 55 60
 Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr
 65 70 75 80
 Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr
 85 90 95
 Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly
 100 105 110
 Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu
 115 120 125
 Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro
 130 135 140
 Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser
 145 150 155 160
 Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr
 165 170 175
 Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu
 180 185 190
 Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly
 195 200 204

<210> 1134
 <211> 531
 <212> Amino acid
 <213> Homo sapiens

<400> 1134
 Arg Ala Cys Val Phe Arg Pro Glu Asp Met Met Gln Gly Glu Ala His
 1 5 10 15
 Pro Ser Ala Ser Leu Ile Asp Arg Thr Ile Lys Met Arg Lys Glu Thr
 20 25 30
 Glu Ala Arg Lys Val Val Leu Ala Trp Gly Leu Leu Asn Val Ser Met
 35 40 45
 Ala Gly Met Ile Tyr Thr Glu Met Thr Gly Lys Leu Ile Ser Ser Tyr

50	55	60
Tyr Asn Val Thr Tyr Trp	Pro Leu Trp Tyr Ile Glu Leu Ala Leu Ala	
65	70	75
Ser Leu Phe Ser Leu Asn	Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys	80
85	90	95
Tyr Thr Val Ala Pro Thr	Ser Leu Val Val Ser Pro Gly Gln Gln Thr	
100	105	110
Leu Leu Gly Leu Lys Thr	Ala Val Val Gln Thr Thr Pro Pro His Asp	
115	120	125
Leu Ala Ala Thr Gln Ile	Pro Pro Ala Pro Pro Ser Pro Ser Ile Gln	
130	135	140
Gly Gln Ser Val Leu Ser	Tyr Ser Pro Ser Arg Ser Pro Ser Thr Ser	
145	150	155
Pro Lys Phe Thr Thr Ser	Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln	
165	170	175
Gly Leu Ser Ser Gly Gly	Ser Gly Ser Tyr Ser Pro Gly Val Thr Tyr	
180	185	190
Ser Pro Val Ser Gly Tyr	Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro	
195	200	205
Pro Ser Pro Tyr Pro Thr	Thr Val Gly Pro Val Glu Ser Ser Gly Leu	
210	215	220
Arg Ser Arg Tyr Arg Ser	Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp	
225	230	235
Lys Glu Asp Tyr Met Thr	Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg	
245	250	255
Ser Glu Glu Glu Lys Gln	His Arg Val Lys Leu Gly Ser Pro Asp Ser	
260	265	270
Thr Ser Pro Ser Ser Ser	Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met	
275	280	285
Gly Asp Tyr Ala Gln Thr	Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys	
290	295	300
Arg Ser Gln Ala Pro Cys	Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser	
305	310	315
Lys Gln Ala Ala Glu Glu	Val Trp Ala Arg Val Ala Met Asn Arg Gln	
325	330	335
Leu Leu Asp His Met Asp	Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile	
340	345	350
Asn Glu Thr Ile Leu Val	Pro Leu Val Gln Glu Ile Glu Ser Val Ser	
355	360	365
Thr Gln Met Arg Arg Met	Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala	
370	375	380
Ser Ile Thr Ser Leu Lys	Gln Ala Ala Leu Val Lys Ala Pro Leu Ile	
385	390	395
Pro Thr Leu Asn Thr Ile	Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln	
405	410	415
Glu Tyr Leu Phe Glu Arg	Ile Lys Glu Leu Ser Gln Gly Gly Cys Met	
420	425	430
Ser Ser Phe Arg Trp Asn	Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp	
435	440	445
Asp Thr Asp Leu Pro Thr	Asp Ser Ala Ile Ile Met His Val Phe Cys	
450	455	460
Thr Tyr Leu Asp Ser Arg	Leu Pro Pro His Pro Lys Tyr Pro Asp Gly	
465	470	475
Lys Thr Phe Thr Ser Gln	His Phe Val Gln Thr Pro Asn Lys Pro Asp	
485	490	495
Val Thr Asn Glu Asn Val	Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro	
500	505	510
Pro His Tyr Glu Leu Ile	Tyr Gln Arg His Val Tyr Ile Pro Ala Lys	
515	520	525
Gly Gln Lys		
530 531		

<210> 1135

<211> 508
 <212> Amino acid
 <213> Homo sapiens

<400> 1135
 Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val
 1 5 10 15
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser
 20 25 30
 Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu
 35 40 45
 Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser
 50 55 60
 Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr
 65 70 75 80
 Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg
 85 90 95
 Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val
 100 105 110
 Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg
 115 120 125
 Lys Arg Glu Ala Glu Glu Arg Arg Arg Phe Pro Leu Glu Gln Arg Leu
 130 135 140
 Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala
 145 150 155 160
 Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu
 165 170 175
 Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala
 180 185 190
 Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile
 195 200 205
 Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe
 210 215 220
 Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu
 225 230 235 240
 Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu
 245 250 255
 Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe
 260 265 270
 Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys
 275 280 285
 Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala
 290 295 300
 Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn
 305 310 315 320
 Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr
 325 330 335
 Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala
 340 345 350
 His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr
 355 360 365
 Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu
 370 375 380
 Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu
 385 390 395 400
 Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val
 405 410 415
 His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly
 420 425 430
 Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

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      435              440              445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser
      450              455              460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg
465              470              475              480
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg
      485              490              495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile
      500              505              508

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<210> 1136
 <211> 81
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1136
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly
 1              5              10              15
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala
      20              25              30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr
      35              40              45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly
      50              55              60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Leu Ser Ala Asn Gln
65              70              75              80
Gly
81

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<210> 1137
 <211> 260
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1137
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr
 1              5              10              15
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
      20              25              30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
      35              40              45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
      50              55              60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
65              70              75              80
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
      85              90              95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
      100              105              110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
      115              120              125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile
      130              135              140
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys

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145          150          155          160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
          165          170          175
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
          180          185          190
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
          195          200          205
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
          210          215          220
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
225          230          235          240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
          245          250          255
Lys Leu Tyr Asn
          260

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<210> 1138
<211> 393
<212> Amino acid
<213> Homo sapiens

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```

<400> 1138
Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met
1          5          10          15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala
          20          25          30
Ala Ala Ala Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Glu
          35          40          45
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp
50          55          60
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Gln Leu Glu Glu Glu Glu
65          70          75          80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln
          85          90          95
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg
          100          105          110
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu
          115          120          125
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu
130          135          140
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val
145          150          155          160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val
          165          170          175
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn
          180          185          190
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His
          195          200          205
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala
210          215          220
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu
225          230          235          240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser
          245          250          255
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile
          260          265          270
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala
          275          280          285
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Ser Val Leu Pro Pro Ser

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      290              295              300
Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys
305              310              315              320
Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro
      325              330              335
Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu
      340              345              350
Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg
      355              360              365
Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro
      370              375              380
Ala Arg Lys Val Lys Met Arg Arg His
385              390              393

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<210> 1139

<211> 545

<212>Amino acid

<213> Homo sapiens

<400> 1139

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Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr
1              5              10              15
Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln
      20              25              30
Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln
      35              40              45
Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp
      50              55              60
Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn
      65              70              75              80
His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val
      85              90              95
Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala
      100              105              110
Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser
      115              120              125
Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp
      130              135              140
Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His
      145              150              155              160
Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu
      165              170              175
Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser
      180              185              190
Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu
      195              200              205
Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys
      210              215              220
Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His
      225              230              235              240
Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg
      245              250              255
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala
      260              265              270
Glu His Thr Pro Met Ala Pro Gly Ser Thr His Arg Arg Asp Arg
      275              280              285
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly
      290              295              300
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser

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305 310 315 320
 Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
 325 330 335
 Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
 340 345 350
 Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
 355 360 365
 Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
 370 375 380
 Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
 385 390 395 400
 Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
 405 410 415
 Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
 420 425 430
 Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
 435 440 445
 Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
 450 455 460
 Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
 465 470 475 480
 Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
 485 490 495
 Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val
 500 505 510
 Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
 515 520 525
 Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
 530 535 540
 Gln
 545

<210> 1140

<211> 621

<212> Amino acid

<213> Homo sapiens

<400> 1140

Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
 1 5 10 15
 Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
 20 25 30
 Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
 35 40 45
 Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
 50 55 60
 Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
 65 70 75 80
 Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
 85 90 95
 Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
 100 105 110
 Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
 115 120 125
 Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
 130 135 140
 Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
 145 150 155 160
 Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

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<210> 1141
<211> 154
<212> Amino acid
<213> Homo sapiens
```

<400> 1141
 Ala Gln Val Tyr Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg
 1 5 10 15
 Pro Ser Gly Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val
 20 25 30
 His Ser Asn Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile
 35 40 45
 Gln Ser Ala Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His
 50 55 60
 Met Val Pro Ile Val His His Val Lys Glu His His Phe Gly Ser Ser
 65 70 75 80
 Gly Met Thr Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr
 85 90 95
 Glu Gln Glu Ala Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg
 100 105 110
 Ile Asp Ile Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp
 115 120 125
 Glu Met Lys Ser Pro Arg Glu Pro Gly Tyr Lys Asp Gly His Asn Ser
 130 135 140
 Lys Asn Glu Leu Gln Arg Val Asn Phe Tyr
 145 150 154

<210> 1142
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

<400> 1142
 Thr Tyr Thr Phe Cys Phe Ser Leu Met Ile Ile Leu Leu Thr Ile Ile
 1 5 10 15
 Gln Gly Leu Ile Leu Glu Ala Phe Gly Glu Leu Arg Asp Gln Leu Asp
 20 25 30
 Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly
 35 40 45
 Asn Asp Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu
 50 55 60
 Gln Glu His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile
 65 70 75 80
 Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys
 85 90 95
 Met Tyr Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe
 100 105 110
 Arg Lys Gln Tyr Glu Asp Gln Leu Asn
 115 120 121

<210> 1143
 <211> 851
 <212>Amino acid
 <213> Homo sapiens

<400> 1143

Phe	Arg	Arg	Lys	Gly	Gly	Gly	Gly	Pro	Lys	Asp	Phe	Gly	Ala	Gly	Leu	1	5	10	15
Lys	Tyr	Asn	Ser	Arg	His	Glu	Lys	Val	Asn	Gly	Leu	Glu	Glu	Gly	Val	20	25	30	
Glu	Phe	Leu	Pro	Val	Asn	Asn	Val	Lys	Lys	Val	Glu	Lys	His	Gly	Pro	35	40	45	
Gly	Arg	Trp	Val	Val	Leu	Ala	Val	Leu	Ile	Gly	Leu	Leu	Leu	Val		50	55	60	
Leu	Leu	Gly	Ile	Gly	Phe	Leu	Val	Trp	His	Leu	Gln	Tyr	Arg	Asp	Val	65	70	75	80
Arg	Val	Gln	Lys	Val	Phe	Asn	Gly	Tyr	Met	Arg	Ile	Thr	Asn	Glu	Asn	85	90	95	
Phe	Val	Asp	Ala	Tyr	Glu	Asn	Ser	Asn	Ser	Thr	Glu	Phe	Val	Ser	Leu	100	105	110	
Ala	Ser	Lys	Val	Lys	Asp	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	115	120	125	
Phe	Leu	Gly	Pro	Tyr	His	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	130	135	140	
Gly	Ser	Val	Ile	Ala	Tyr	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	145	150	155	160
Leu	Val	Glu	Glu	Ala	Glu	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met	165	170	175	
Leu	Pro	Pro	Arg	Ala	Arg	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val	180	185	190	
Val	Ala	Phe	Pro	Thr	Asp	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn	195	200	205	
Ser	Cys	Ser	Phe	Gly	Leu	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe	210	215	220	
Thr	Thr	Pro	Gly	Phe	Pro	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg	Cys	225	230	235	240
Gln	Trp	Ala	Leu	Arg	Gly	Asp	Ala	Asp	Ser	Val	Leu	Ser	Leu	Thr	Phe	245	250	255	
Arg	Ser	Phe	Asp	Leu	Ala	Ser	Cys	Asp	Glu	Arg	Gly	Arg	His	Leu	Val	260	265	270	
Thr	Val	Tyr	Asn	Thr	Leu	Ser	Pro	Met	Glu	Pro	His	Ala	Leu	Val	Gln	275	280	285	
Leu	Cys	Gly	Thr	Tyr	Pro	Pro	Ser	Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser	290	295	300	
Gln	Asn	Val	Leu	Leu	Ile	Thr	Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His	305	310	315	320
Pro	Gly	Phe	Glu	Ala	Thr	Phe	Phe	Gln	Leu	Pro	Arg	Met	Ser	Ser	Cys	325	330	335	
Gly	Gly	Arg	Leu	Arg	Lys	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr	340	345	350	
Pro	Gly	His	Tyr	Pro	Pro	Asn	Ile	Asp	Cys	Thr	Trp	Asn	Ile	Glu	Val	355	360	365	
Pro	Asn	Asn	Gln	His	Val	Lys	Val	Arg	Phe	Lys	Phe	Phe	Tyr	Leu	Leu	370	375	380	
Glu	Pro	Gly	Val	Pro	Ala	Gly	Thr	Cys	Pro	Lys	Asp	Tyr	Val	Glu	Ile	385	390	395	400
Asn	Gly	Glu	Lys	Tyr	Cys	Gly	Glu	Arg	Ser	Gln	Phe	Val	Val	Thr	Ser	405	410	415	
Asn	Ser	Asn	Lys	Ile	Thr	Val	Arg	Phe	His	Ser	Asp	Gln	Ser	Tyr	Thr	420	425	430	
Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp	Ser	Ser	Asp	Pro	435	440	445	
Cys	Pro	Gly	Gln	Phe	Thr	Cys	Arg	Thr	Gly	Arg	Cys	Ile	Arg	Lys	Glu	450	455	460	
Leu	Arg	Cys	Asp	Gly	Trp	Ala	Asp	Cys	Thr	Asp	His	Ser	Asp	Glu	Leu	465	470	475	480
Asn	Cys	Ser	Cys	Asp	Ala	Gly	His	Gln	Phe	Thr	Cys	Lys	Asn	Lys	Phe	485	490	495	
Cys	Lys	Pro	Leu	Phe	Trp	Val	Cys	Asp	Ser	Leu	Asn	Asp	Cys	Gly	Asp				

```

      500      505      510
Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys
      515      520      525
Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp
      530      535      540
Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val
545      550      555      560
Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu
      565      570      575
Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly
      580      585      590
Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln
      595      600      605
Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp
      610      615      620
Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser
625      630      635      640
Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
      645      650      655
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu
      660      665      670
Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg
      675      680      685
Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe
690      695      700
Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser
705      710      715      720
Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro
      725      730      735
Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly
      740      745      750
Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn
      755      760      765
Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met
770      775      780
Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp
785      790      795      800
Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln
      805      810      815
Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro
      820      825      830
Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn
      835      840      845
Thr Gly Val
      850 851

```

<210> 1144

<211> 346

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> X = any amino acid or stop code

<400> 1144

```

Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr
  1              5              10              15

```

```

Asp Cys Ser Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser
      20      25      30
Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu
      35      40      45
Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro
      50      55      60
Glu Val Phe Lys Glu Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro
      65      70      75      80
Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr
      85      90      95
Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn
      100      105      110
Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His
      115      120      125
Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys
      130      135      140
Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser
      145      150      155      160
Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile
      165      170      175
Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser
      180      185      190
Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser
      195      200      205
Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser
      210      215      220
Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala
      225      230      235      240
Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu
      245      250      255
Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe
      260      265      270
Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp
      275      280      285
Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr Ala Leu Glu
      290      295      300
Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val
      305      310      315      320
Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg
      325      330      335
Thr Val Glu Ser Thr Ser His Arg Leu Tyr
      340      345      346

```

<210> 1145

<211> 339

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(339)

<223> X = any amino acid or stop code

<400> 1145

```

Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val
  1      5      10      15
Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly
      20      25      30
Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

```

```

      35              40              45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro
  50              55              60
Gly Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln
  65              70              75              80
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg
      85              90              95
Trp Arg Leu Xaa Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr
      100              105              110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu
      115              120              125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His
      130              135              140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala
      145              150              155              160
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu
      165              170              175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg
      180              185              190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala
      195              200              205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His
      210              215              220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu
      225              230              235              240
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe
      245              250              255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile
      260              265              270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys
      275              280              285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln
      290              295              300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu Glu
      305              310              315              320
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser
      325              330              335
Lys Pro Gln
      339

```

<210> 1146

<211> 425

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(425)

<223> X = any amino acid or stop code

<400> 1146

```

Ala Ala Ala Leu Val Ala Glu Tyr Leu Ala Leu Leu Glu Asp His Arg
  1              5              10              15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val
      20              25              30
Leu Glu Glu Ser Ala Ile Ser Asp Ile Leu Ser Pro Asp Glu Glu
      35              40              45
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu
      50              55              60

```



```

Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala
 65          70          75          80
Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg
          85          90          95
Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe
          100          105          110
Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr
          115          120          125
Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu
          130          135          140
Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile
145          150          155          160
Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val
          165          170          175
Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp
          180          185          190
Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp
          195          200          205
Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly
          210          215          220
Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala
225          230          235          240
His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr
          245          250          255
Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg
          260          265          270
Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln
          275          280          285
Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp
          290          295          300
Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val
305          310          315          320
Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro
          325          330          335
Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe
          340          345          350
Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala
          355          360          365
Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn
          370          375          380
Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu
385          390          395          400
Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn
          405          410          415
Arg Ala Ser Phe Arg Lys Ala Asp Leu
          420          425

```

<210> 1147

<211> 198

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(198)

<223> X = any amino acid or stop code

<400> 1147

```

Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

```

1	5	10	15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala			
20	25	30	
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg			
35	40	45	
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ser Ala Asp His			
50	55	60	
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu			
65	70	75	80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe			
85	90	95	
Gly Gly Ala Ser Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu			
100	105	110	
His Gly Glu Gly Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro			
115	120	125	
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala			
130	135	140	
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys			
145	150	155	160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile			
165	170	175	
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg			
180	185	190	
Gly Gln Gly Arg Asn Leu			
195	198		

<210> 1148

<211> 317

<212> Amino acid

<213> Homo sapiens

<400> 1148

Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala			
1	5	10	15
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg			
20	25	30	
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr			
35	40	45	
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu			
50	55	60	
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu			
65	70	75	80
Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser Val Asp Ser Trp			
85	90	95	
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly			
100	105	110	
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg			
115	120	125	
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys			
130	135	140	
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu			
145	150	155	160
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu			
165	170	175	
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro			
180	185	190	
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly			
195	200	205	
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu			

210	215	220
Gln Ala Ser Val	Gln Val Ile Asp Ser Thr	Arg Cys Asn Ala Asp Asp
225	230	235
Ala Tyr Gln Gly	Glu Val Thr Glu Lys Met	Met Cys Ala Gly Ile Pro
	245	250
Glu Gly Gly Val	Asp Thr Cys Gln Gly Asp	Ser Gly Gly Pro Leu Met
	260	265
Tyr Gln Ser Asp	Gln Trp His Val Val Gly	Ile Val Ser Trp Gly Tyr
	275	280
Gly Cys Gly Gly	Pro Ser Thr Pro Gly Val	Tyr Thr Lys Val Ser Ala
	290	295
Tyr Leu Asn Trp	Ile Tyr Asn Val Trp Lys	Ala Glu Leu
305	310	315
		317

<210> 1149

<211> 320

<212>Amino acid

<213> Homo sapiens

<400> 1149															
Thr	Ile	Ser	Thr	Val	Arg	Trp	Asn	Ser	Arg	Ile	Gly	Met	Val	Leu	Gly
1				5					10					15	
Val	Ala	Ile	Gln	Lys	Arg	Ala	Val	Pro	Gly	Leu	Tyr	Ala	Phe	Glu	Glu
			20					25					30		
Ala	Tyr	Ala	Arg	Ala	Asp	Lys	Glu	Ala	Pro	Arg	Pro	Cys	His	Lys	Gly
		35				40						45			
Ser	Trp	Cys	Ser	Ser	Asn	Gln	Leu	Cys	Arg	Glu	Cys	Gln	Ala	Phe	Met
	50				55					60					
Ala	His	Thr	Met	Pro	Lys	Leu	Lys	Ala	Phe	Ser	Met	Ser	Ser	Ala	Tyr
	65			70					75					80	
Asn	Ala	Tyr	Arg	Ala	Val	Tyr	Ala	Val	Ala	His	Gly	Leu	His	Gln	Leu
			85					90					95		
Leu	Gly	Cys	Ala	Ser	Gly	Ala	Cys	Ser	Arg	Gly	Arg	Val	Tyr	Pro	Trp
		100						105					110		
Gln	Leu	Leu	Glu	Gln	Ile	His	Lys	Val	His	Phe	Leu	Leu	His	Lys	Asp
	115					120					125				
Thr	Val	Ala	Phe	Asn	Asp	Asn	Arg	Asp	Pro	Leu	Ser	Tyr	Asn	Ile	
	130				135					140					
Ile	Ala	Trp	Asp	Trp	Asn	Gly	Pro	Lys	Trp	Thr	Phe	Thr	Val	Leu	Gly
	145			150					155					160	
Ser	Ser	Thr	Trp	Ser	Pro	Val	Gln	Leu	Asn	Ile	Asn	Glu	Thr	Lys	Ile
			165					170					175		
Gln	Trp	His	Gly	Lys	Asp	Asn	Gln	Val	Pro	Lys	Ser	Val	Cys	Ser	Ser
		180				185						190			
Asp	Cys	Leu	Glu	Gly	His	Gln	Arg	Val	Val	Thr	Gly	Phe	His	His	Cys
	195					200						205			
Cys	Phe	Glu	Cys	Val	Pro	Cys	Gly	Ala	Gly	Thr	Phe	Leu	Asn	Lys	Ser
	210					215					220				
Ser	Tyr	Leu	Gly	Lys	Asp	Leu	Pro	Glu	Asn	Tyr	Asn	Glu	Ala	Lys	Cys
	225			230					235					240	
Val	Thr	Phe	Ser	Leu	Leu	Phe	Asn	Phe	Val	Ser	Trp	Ile	Ala	Phe	Phe
			245					250						255	
Thr	Thr	Ala	Ser	Val	Tyr	Asp	Gly	Lys	Tyr	Leu	Pro	Ala	Ala	Asn	Met
			260					265					270		
Met	Ala	Gly	Leu	Ser	Ser	Leu	Ser	Ser	Gly	Phe	Gly	Gly	Tyr	Phe	Leu
		275				280						285			
Pro	Lys	Cys	Tyr	Val	Ile	Leu	Cys	Arg	Pro	Asp	Leu	Asn	Ser	Thr	Glu
	290					295					300				
His	Phe	Gln	Ala	Ser	Ile	Gln	Asp	Tyr	Thr	Arg	Arg	Cys	Gly	Ser	Thr

305

310

315

320

<210> 1150
 <211> 458
 <212> Amino acid
 <213> Homo sapiens

<400> 1150
 Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser
 1 5 10 15
 Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser
 20 25 30
 Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu
 35 40 45
 His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala
 50 55 60
 Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile
 65 70 75 80
 Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln
 85 90 95
 Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro
 100 105 110
 Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr
 115 120 125
 Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe
 130 135 140
 Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys
 145 150 155 160
 Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu
 165 170 175
 Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn
 180 185 190
 Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser
 195 200 205
 Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe
 210 215 220
 Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val
 225 230 235 240
 Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val
 245 250 255
 Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn
 260 265 270
 Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala
 275 280 285
 Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln
 290 295 300
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu
 305 310 315 320
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu
 325 330 335
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His
 340 345 350
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu
 355 360 365
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser
 370 375 380
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

```

385                      390                      395                      400
Pro Pro Gly Pro Pro Ala Val Glu Asp Val Ser Leu Asp Leu Glu Asp
                      405                      410                      415
Glu Glu Gly Glu Glu Glu Glu Tyr Leu Asp Lys Ile Asn Pro Ile
                      420                      425                      430
Tyr Asp Ala Leu Ser Tyr Ser Ser Pro Ser Asp Ser Tyr Gln Gly Lys
                      435                      440                      445
Gly Phe Val Met Ser Arg Ala Met Tyr Val
                      450                      455                      458

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<210> 1151
<211> 608
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1151
Gly Thr Arg Leu Arg Glu Asp Lys Asn His Asn Met Tyr Val Ala Gly
 1      5      10      15
Cys Thr Glu Val Glu Val Lys Ser Thr Glu Glu Ala Phe Glu Val Phe
      20      25      30
Trp Arg Gly Gln Lys Lys Arg Arg Ile Ala Asn Thr His Leu Asn Arg
      35      40      45
Glu Ser Ser Arg Ser His Ser Val Phe Asn Ile Lys Leu Val Gln Ala
      50      55      60
Pro Leu Asp Ala Asp Gly Asp Asn Val Leu Gln Glu Lys Glu Gln Ile
      65      70      75      80
Thr Ile Ser Gln Leu Ser Leu Val Asp Leu Ala Gly Ser Glu Arg Thr
      85      90      95
Asn Arg Thr Arg Ala Glu Gly Asn Arg Leu Arg Glu Ala Gly Asn Ile
      100      105      110
Asn Gln Ser Leu Met Thr Leu Arg Thr Cys Met Asp Val Leu Arg Glu
      115      120      125
Asn Gln Met Tyr Gly Thr Asn Lys Met Val Pro Tyr Arg Asp Ser Lys
      130      135      140
Leu Thr His Leu Phe Lys Asn Tyr Phe Asp Gly Glu Gly Lys Val Arg
      145      150      155      160
Met Ile Val Cys Val Asn Pro Lys Ala Glu Asp Tyr Glu Glu Asn Leu
      165      170      175
Gln Val Met Arg Phe Ala Glu Val Thr Gln Glu Val Glu Val Ala Arg
      180      185      190
Pro Val Asp Lys Ala Ile Cys Gly Leu Thr Pro Gly Arg Tyr Arg
      195      200      205
Asn Gln Pro Arg Gly Pro Ile Gly Asn Glu Pro Leu Val Thr Asp Val
      210      215      220
Val Leu Gln Ser Phe Pro Pro Leu Pro Ser Cys Glu Ile Leu Asp Ile
      225      230      235      240
Asn Asp Glu Gln Thr Leu Pro Arg Leu Ile Glu Ala Leu Glu Lys Arg
      245      250      255
His Asn Leu Arg Gln Met Met Ile Asp Glu Phe Asn Lys Gln Ser Asn
      260      265      270
Ala Phe Lys Ala Leu Leu Gln Glu Phe Asp Asn Ala Val Leu Ser Lys
      275      280      285
Glu Asn His Met Gln Gly Lys Leu Asn Glu Lys Glu Lys Met Ile Ser
      290      295      300
Gly Gln Lys Leu Glu Ile Glu Arg Leu Glu Lys Lys Asn Lys Thr Leu
      305      310      315      320
Glu Tyr Lys Ile Glu Ile Leu Glu Lys Thr Thr Thr Ile Tyr Glu Glu
      325      330      335
Asp Lys Arg Asn Leu Gln Gln Glu Leu Glu Thr Gln Asn Gln Lys Leu

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```
<210> 1152
<211> 111
<212> Amino acid
<213> Homo sapiens
```

<210> 1153

<211> 444
 <212> Amino acid
 <213> Homo sapiens

<400> 1153
 Met Ser Leu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val
 1 5 10 15
 Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser
 20 25 30
 Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg
 35 40 45
 Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp
 50 55 60
 Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe
 65 70 75 80
 Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg
 85 90 95
 Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro
 100 105 110
 Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala
 115 120 125
 His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys
 130 135 140
 Trp Ser Asp Ile Met Phe Glu His Phe Phe Leu His Lys Glu Gly Ile
 145 150 155 160
 Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser
 165 170 175
 Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr
 180 185 190
 Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala
 195 200 205
 Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro
 210 215 220
 Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val
 225 230 235 240
 Thr Leu Ser Cys Ser Ser Arg Ser Ser Tyr Asp Met Tyr His Leu Ser
 245 250 255
 Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val
 260 265 270
 Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly
 275 280 285
 Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp
 290 295 300
 Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser
 305 310 315 320
 Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro
 325 330 335
 Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe
 340 345 350
 Ile Leu Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys
 355 360 365
 Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn
 370 375 380
 Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln
 385 390 395 400
 Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln
 405 410 415
 Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro
 420 425 430
 Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

435

440

444

<210> 1154
 <211> 522
 <212> Amino acid
 <213> Homo sapiens

<400> 1154
 Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val
 1 5 10 15
 Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr
 20 25 30
 Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala
 35 40 45
 Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly
 50 55 60
 Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile
 65 70 75 80
 Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn
 85 90 95
 Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser
 100 105 110
 Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys
 115 120 125
 Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu
 130 135 140
 Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala
 145 150 155 160
 Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe
 165 170 175
 Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala
 180 185 190
 Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro
 195 200 205
 Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr
 210 215 220
 Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu
 225 230 235 240
 Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn
 245 250 255
 Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val
 260 265 270
 Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn
 275 280 285
 Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu
 290 295 300
 Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp
 305 310 315 320
 Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Leu Glu Pro Asp Lys Glu
 325 330 335
 Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser
 340 345 350
 Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys
 355 360 365
 Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn
 370 375 380
 Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe
 385 390 395 400
 Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Leu Tyr


```

          405          410          415
Leu Tyr Leu Thr Pro Cys Pro Cys Lys Cys Lys Thr Lys Arg Gln Lys
          420          425          430
Asn Met Leu His Gln Ser Asn Ala His Ser Ser Ile Leu Ser Pro Gly
          435          440          445
Pro Ala Ser Asp Ala Ser Ala Asp Glu Arg Lys Ala Gly Ala Gly Lys
          450          455          460
Arg Val Val Phe Leu Glu Pro Leu Lys Asp Thr Ala Ala Gly Gln Asn
465          470          475          480
Gly Lys Val Arg Leu Phe Pro Ser Glu Ala Val Ile Ala Glu Gly Ile
          485          490          495
Leu Lys Ser Thr Arg Gly Lys Ser Asp Ser Asp Ser Val Asn Ser Val
          500          505          510
Phe Ser Asp Thr Pro Phe Val Ala Ser Thr
          515          520          522

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```

<210> 1155
<211> 642
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1155
Ala Ser Asp Phe Ile Arg Ser Leu Asp His Cys Gly Tyr Leu Ser Leu
 1          5          10          15
Glu Gly Val Phe Ser His Lys Phe Asp Phe Glu Leu Gln Asp Val Ser
          20          25          30
Ser Val Asn Glu Asp Val Leu Leu Thr Thr Gly Leu Leu Cys Lys Tyr
          35          40          45
Thr Ala Gln Arg Phe Lys Pro Lys Tyr Lys Phe Phe His Lys Ser Phe
          50          55          60
Gln Glu Tyr Thr Ala Gly Arg Arg Leu Ser Ser Leu Leu Thr Ser His
          65          70          75          80
Glu Pro Glu Glu Val Thr Lys Gly Asn Gly Tyr Leu Gln Lys Met Val
          85          90          95
Ser Ile Ser Asp Ile Thr Ser Thr Tyr Ser Ser Leu Leu Arg Tyr Thr
          100          105          110
Cys Gly Ser Ser Val Glu Ala Thr Arg Ala Val Met Lys His Leu Ala
          115          120          125
Ala Val Tyr Gln His Gly Cys Leu Leu Gly Leu Ser Ile Ala Lys Arg
          130          135          140
Pro Leu Trp Arg Gln Glu Ser Leu Gln Ser Val Lys Asn Thr Thr Glu
          145          150          155          160
Gln Glu Ile Leu Lys Ala Ile Asn Ile Asn Ser Phe Val Glu Cys Gly
          165          170          175
Ile His Leu Tyr Gln Glu Ser Thr Ser Lys Ser Ala Leu Ser Gln Glu
          180          185          190
Phe Glu Ala Phe Phe Gln Gly Lys Ser Leu Tyr Ile Asn Ser Gly Asn
          195          200          205
Ile Pro Asp Tyr Leu Phe Asp Phe Phe Glu His Leu Pro Asn Cys Ala
          210          215          220
Ser Ala Leu Asp Phe Ile Lys Leu Gly Phe Tyr Gly Gly Ala Met Ala
          225          230          235          240
Ser Trp Glu Lys Ala Ala Glu Asp Thr Gly Gly Ile His Met Glu Glu
          245          250          255
Ala Pro Glu Thr Tyr Ile Pro Ser Arg Ala Val Ser Leu Phe Phe Asn
          260          265          270
Trp Lys Gln Glu Phe Arg Thr Leu Glu Val Thr Leu Arg Asp Phe Ser
          275          280          285
Lys Leu Asn Lys Gln Asp Ile Arg Tyr Leu Gly Lys Ile Phe Ser Ser

```

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      290              295              300
Ala Thr Ser Leu Arg Leu Gln Ile Lys Arg Cys Ala Gly Val Ala Gly
305              310              315              320
Ser Leu Ser Leu Val Leu Ser Thr Cys Lys Asn Ile Tyr Ser Leu Met
              325              330              335
Val Glu Ala Ser Pro Leu Thr Ile Glu Asp Glu Arg His Ile Thr Ser
              340              345              350
Val Thr Asn Leu Lys Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg
              355              360              365
Leu Pro Gly Gly Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr
              370              375              380
Lys Leu Ile Met Asp Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys
385              390              395              400
Leu Ala Glu Gly Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu
              405              410              415
Thr His Leu Ser Asp Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser
              420              425              430
Leu Ser Ser Glu Pro Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys
              435              440              445
Cys Leu Ser Ala Asn Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn
              450              455              460
Leu Val Lys Leu Ser Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys
465              470              475              480
Asp Gly Asn Glu Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu
              485              490              495
Glu Gln Leu Thr Ala Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly
              500              505              510
Ser Leu Ser Ser Leu Leu Lys His Leu Glu Glu Val Pro Gln Leu Val
              515              520              525
Lys Leu Gly Leu Lys Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile
              530              535              540
Leu Gly Ala Phe Phe Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu
545              550              555              560
Asn Leu Ala Gly Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met
              565              570              575
Gly Val Phe Glu Asn Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr
              580              585              590
Lys Glu Phe Leu Pro Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val
              595              600              605
Leu Ser Lys Leu Thr Phe Leu Gln Glu Ala Arg Leu Val Gly Trp Gln
              610              615              620
Phe Asp Asp Asp Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val
625              630              635              640
Thr Ala
642

```

<210> 1156

<211> 125

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> X = any amino acid or stop code

<400> 1156

```

Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg
  1              5              10              15

```

```

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg
      20      25      30
Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro
      35      40      45
Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
      50      55      60
Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val
      65      70      75      80
Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln
      85      90      95
Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln
      100      105      110
Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly
      115      120      125

```

<210> 1157

<211> 91

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(91)

<223> X = any amino acid or stop code

<400> 1157

```

Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg
  1      5      10      15
Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe
      20      25      30
Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile
      35      40      45
Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg
      50      55      60
Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala
      65      70      75      80
Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu
      85      90      91

```

<210> 1158

<211> 254

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(254)

<223> X = any amino acid or stop code

<400> 1158

```

Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe
  1      5      10      15
Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys
      20      25      30

```

Gly Ser Leu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu
 35 40 45
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met
 50 55 60
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly
 65 70 75 80
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu
 85 90 95
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val
 100 105 110
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg
 115 120 125
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp
 130 135 140
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser
 145 150 155 160
 Leu Ala Ile Xaa His Pro Phe Glu Gly Ala Ser Val Arg Asn Lys Ala
 165 170 175
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile
 180 185 190
 Ser Gly Val Gln Lys Ser Lys Lys Asn Gly Pro Ile Asp Trp Glu Trp
 195 200 205
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Ser Gly Val Leu Arg Val
 210 215 220
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg
 225 230 235 240
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn
 245 250 254

<210> 1159

<211> 162

<212> Amino acid

<213> Homo sapiens

<400> 1159

Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala
 1 5 10 15
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr
 20 25 30
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro
 35 40 45
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln
 50 55 60
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu
 65 70 75 80
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile
 85 90 95
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu
 100 105 110
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu
 115 120 125
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met
 130 135 140
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr
 145 150 155 160
 Val His
 162

<210> 1160
 <211> 295
 <212>Amino acid
 <213> Homo sapiens

<400> 1160
 His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu
 1 5 10 15
 Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp
 20 25 30
 Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu
 35 40 45
 Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys
 50 55 60
 Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg
 65 70 75 80
 Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser
 85 90 95
 Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg
 100 105 110
 Val Gly Asp Phe Asn Glu Ser Thr Tyr Tyr Met Glu Gly Asn Leu Gly
 115 120 125
 His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys
 130 135 140
 Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly
 145 150 155 160
 Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu
 165 170 175
 Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys
 180 185 190
 Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu
 195 200 205
 Phe Thr Ser Gly Asp Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe
 210 215 220
 Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly
 225 230 235 240
 Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn
 245 250 255
 Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg
 260 265 270
 Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr
 275 280 285
 Ser Pro Thr Ile Val Lys Glu
 290 295

<210> 1161
 <211> 1621
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1621)
 <223> X = any amino acid or stop code

<400> 1161

Met	Ala	Lys	Ser	Gly	Gly	Cys	Gly	Ala	Gly	Ala	Gly	Val	Gly	Gly	Gly
1				5					10					15	
Asn	Gly	Ala	Leu	Thr	Trp	Val	Asn	Asn	Ala	Ala	Lys	Lys	Glu	Glu	Ser
			20					25					30		
Glu	Thr	Ala	Asn	Lys	Asn	Asp	Ser	Ser	Lys	Lys	Leu	Ser	Val	Glu	Arg
		35					40					45			
Val	Tyr	Gln	Lys	Lys	Thr	Gln	Leu	Glu	His	Ile	Leu	Leu	Arg	Pro	Asp
	50					55					60				
Thr	Tyr	Ile	Gly	Ser	Val	Glu	Pro	Leu	Thr	Gln	Phe	Met	Trp	Val	Tyr
	65				70					75				80	
Asp	Glu	Asp	Val	Gly	Met	Asn	Cys	Arg	Glu	Val	Thr	Phe	Val	Pro	Gly
				85					90					95	
Leu	Tyr	Lys	Ile	Phe	Asp	Glu	Ile	Leu	Val	Asn	Ala	Ala	Asp	Asn	Lys
			100					105					110		
Gln	Arg	Asp	Lys	Asn	Met	Thr	Cys	Ile	Lys	Val	Ser	Ile	Asp	Pro	Glu
		115					120					125			
Ser	Asn	Ile	Ile	Ser	Ile	Trp	Asn	Asn	Gly	Lys	Gly	Ile	Pro	Val	Val
	130					135					140				
Glu	His	Lys	Val	Glu	Lys	Val	Tyr	Val	Pro	Ala	Leu	Ile	Phe	Gly	Gln
	145				150					155				160	
Leu	Leu	Thr	Ser	Ser	Asn	Tyr	Asp	Asp	Asp	Glu	Lys	Lys	Val	Thr	Gly
			165					170					175		
Gly	Arg	Asn	Gly	Tyr	Gly	Ala	Lys	Leu	Cys	Asn	Ile	Phe	Ser	Thr	Lys
		180					185						190		
Phe	Thr	Val	Glu	Thr	Ala	Cys	Lys	Glu	Tyr	Lys	His	Ser	Phe	Lys	Gln
	195					200						205			
Thr	Trp	Met	Asn	Asn	Met	Met	Lys	Thr	Ser	Glu	Ala	Lys	Ile	Lys	His
	210				215						220				
Phe	Asp	Gly	Glu	Asp	Tyr	Thr	Cys	Ile	Thr	Phe	Gln	Pro	Asp	Leu	Ser
	225				230					235				240	
Lys	Phe	Lys	Met	Glu	Lys	Leu	Asp	Lys	Asp	Ile	Val	Ala	Leu	Met	Thr
			245					250					255		
Arg	Arg	Ala	Tyr	Asp	Leu	Ala	Gly	Ser	Cys	Arg	Gly	Val	Lys	Val	Met
		260				265						270			
Phe	Asn	Gly	Lys	Lys	Leu	Pro	Val	Asn	Gly	Phe	Arg	Ser	Tyr	Val	Asp
	275					280					285				
Leu	Tyr	Val	Lys	Asp	Lys	Leu	Asp	Glu	Thr	Gly	Val	Ala	Leu	Lys	Val
	290					295				300					
Ile	His	Glu	Leu	Ala	Asn	Glu	Arg	Trp	Asp	Val	Cys	Leu	Thr	Leu	Ser
	305				310					315				320	
Glu	Lys	Gly	Phe	Gln	Gln	Ile	Ser	Phe	Val	Asn	Ser	Ile	Ala	Thr	Thr
			325						330				335		
Lys	Gly	Gly	Arg	His	Val	Asp	Tyr	Val	Val	Asp	Gln	Val	Val	Gly	Lys
		340					345						350		
Leu	Ile	Glu	Val	Val	Lys	Lys	Lys	Asn	Lys	Ala	Gly	Val	Ser	Val	Lys
	355					360					365				
Pro	Phe	Gln	Val	Lys	Asn	His	Ile	Trp	Val	Phe	Ile	Asn	Cys	Leu	Ile
	370				375						380				
Glu	Asn	Pro	Thr	Phe	Asp	Ser	Gln	Thr	Lys	Glu	Asn	Met	Thr	Leu	Gln
	385				390					395				400	
Pro	Lys	Ser	Phe	Gly	Ser	Lys	Cys	Gln	Leu	Ser	Glu	Lys	Phe	Phe	Lys
			405					410					415		
Ala	Ala	Ser	Asn	Cys	Gly	Ile	Val	Glu	Ser	Ile	Leu	Asn	Trp	Val	Lys
			420					425					430		
Phe	Lys	Ala	Gln	Thr	Gln	Leu	Asn	Lys	Lys	Cys	Ser	Ser	Val	Lys	Tyr
	435					440					445				
Ser	Lys	Ile	Lys	Gly	Ile	Pro	Lys	Leu	Asp	Asp	Ala	Asn	Asp	Ala	Gly
	450				455					460					
Gly	Lys	His	Ser	Leu	Glu	Cys	Thr	Leu	Ile	Leu	Thr	Glu	Gly	Asp	Ser
	465				470					475				480	
Ala	Lys	Ser	Leu	Ala	Val	Ser	Gly	Leu	Gly	Val	Ile	Gly	Arg	Asp	Arg
			485					490					495		
Tyr	Gly	Val	Phe	Pro	Leu	Arg	Gly	Lys	Ile	Leu	Asn	Val	Arg	Glu	Ala

690

1010	1015	1020
Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp		
1025	1030	1035
Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met		1040
	1045	1050
Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu		1055
	1060	1065
Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp		1070
	1075	1080
Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys		1085
- 1090	1095	1100
Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln		1105
1105	1110	1115
Asn Gln His Asp Asp Ser Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro		1120
	1125	1130
Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu		1135
	1140	1145
Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val		1150
	1155	1160
Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu		1165
	1170	1175
Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu		1180
1185	1190	1195
Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly		1200
	1205	1210
Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro		1215
	1220	1225
Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala		1230
	1235	1240
Ser Lys Lys Leu Leu Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala		1245
	1250	1255
Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly		1260
1265	1270	1275
Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro		1280
	1285	1290
Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr		1295
	1300	1305
Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn		1310
	1315	1320
Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr		1325
	1330	1335
Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala		1340
1345	1350	1355
Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp		1360
	1365	1370
Ala Asp Asp Asp Asp Asp Asn Asn Asp Leu Glu Glu Leu Lys Val		1375
	1380	1385
Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser		1390
	1395	1400
Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys		1405
	1410	1415
Ala Thr Pro Glu Lys Ser Leu His Asp Lys Lys Ser Gln Asp Phe Gly		1420
1425	1430	1435
Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser		1440
	1445	1450
Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro		1455
	1460	1465
Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala		1470
	1475	1480
Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg		1485
	1490	1495
Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp		1500
1505	1510	1515
Ser Glu Phe Gly Ile Pro Lys Lys Thr Thr Thr Pro Lys Gly Lys Gly		1520


```

          1525          1530          1535
Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp
          1540          1545          1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys
          1555          1560          1565
Lys Thr Ser Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Asp
          1570          1575          1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys
1585          1590          1595          1600
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Glu Asp Asp Val Asp
          1605          1610          1615
Phe Ala Met Phe Asn
          16201621

```

<210> 1162

<211> 73

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(73)

<223> X = any amino acid or stop code

<400> 1162

```

Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
 1          5          10          15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn
          20          25          30
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr
          35          40          45
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr
          50          55          60
His His Cys Lys Ala His Ser Ser His
65          70          73

```

<210> 1163

<211> 336

<212>Amino acid

<213> Homo sapiens

<400> 1163

```

Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly
 1          5          10          15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr
          20          25          30
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr
          35          40          45
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp
          50          55          60
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg
65          70          75          80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala
          85          90          95

```

```

Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly
      100                      105                      110
Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val
      115                      120                      125
Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr
      130                      135                      140
Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile
      145                      150                      155                      160
Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu
      165                      170                      175
Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys
      180                      185                      190
Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala
      195                      200                      205
Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly
      210                      215                      220
Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly
      225                      230                      235                      240
Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr
      245                      250                      255
Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val
      260                      265                      270
Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu
      275                      280                      285
Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys
      290                      295                      300
Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala
      305                      310                      315                      320
Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser
      325                      330                      335 336

```

<210> 1164

<211> 118

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(118)

<223> X = any amino acid or stop code

<400> 1164

```

His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu
  1                      5                      10                      15
Leu Lys Ser His Phe Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser
      20                      25                      30
Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys
      35                      40                      45
Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn
      50                      55                      60
Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys
      65                      70                      75                      80
Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro
      85                      90                      95
Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val
      100                      105                      110
Val His His Gly Ser Gly

```

115

118

<210> 1165
 <211> 146
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(146)
 <223> X = any amino acid or stop code

<400> 1165
 Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp
 1 5 10 15
 Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp
 20 25 30
 Asp Cys Gly His Ile Arg Phe Phe Ser Phe Ser Leu Ile Glu Gly Tyr
 35 40 45
 Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn
 50 55 60
 Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile
 65 70 75 80
 Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr
 85 90 95
 Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His
 100 105 110
 Arg Gln Ala Ala Ser Gln Val Thr Thr Thr Lys Gln Gly Gln Trp Leu
 115 120 125
 Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu
 130 135 140
 Gly *
 145

<210> 1166
 <211> 84
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(84)
 <223> X = any amino acid or stop code

<400> 1166
 Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly
 1 5 10 15
 Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala
 20 25 30
 Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln
 35 40 45
 Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe
 50 55 60
 Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile

65
Lys Ser Ile Lys
84

70

75

80

<210> 1167
<211> 112
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(112)
<223> X = any amino acid or stop code

<400> 1167
Glu Glu Pro Gln Gly Ser Pro Ile Trp Val Trp Leu Ala Gly Ser Leu
1 5 10 15
Thr Ser Val Ser Cys Phe Leu Pro Phe Gln Arg Met Arg Ile Lys Pro
20 25 30
His Gln Gly Gln Tyr Ile Gly Glu Met Ser Phe Leu Gln His His Lys
35 40 45
Gly Glu Cys Arg Pro Gln Lys Asp Xaa Ala Arg Gln Glu Asn Pro Cys
50 55 60
Gly Pro Cys Ser Glu Arg Arg Lys His Leu Leu Gly Gln Asp Pro Lys
65 70 75 80
Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg
85 90 95
Pro Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
100 105 110 112

<210> 1168
<211> 319
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(319)
<223> X = any amino acid or stop code

<400> 1168
Thr Leu Trp Ala Gly Pro Gly Leu Cys Pro Gln Ser His Ser Ser Ser
1 5 10 15
Ser Val Pro Ala Pro Trp Glu Pro His Val Glu Arg Ala Leu Arg Thr
20 25 30
Asp Arg Asn Gln Gly Gln Arg Pro Leu Leu Ser Ala Ser Trp Ala Pro
35 40 45
Ala Pro Ala Arg Pro Leu Phe Leu Thr Ser Pro Val Leu Leu Pro Lys
50 55 60
Ser Arg Ala Ile Pro Ala Ala Arg Asp Pro Ser Xaa Ala Gly Ile Phe
65 70 75 80
Cys Leu Leu Glu Met Ala Gly Gly Gln Ala Ser Val Val Ile Ile Gly

```
<210> 1169
<211> 96
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1170
<211> 145
<212> Amino acid
<213> Homo sapiens
```

696

<222> (1)...(145)

<223> X = any amino acid or stop code

<400> 1170

```

Asn Gly Thr Leu Phe Ile Met Val Met His Ile Lys Asp Leu Val Ser
 1           5           10           15
Asp Tyr Lys Glu Xaa Trp Leu Xaa Arg Lys Pro Leu Pro Trp Xaa Glu
          20           25           30
Ala Leu Leu Leu Arg Asp Cys Phe Phe Phe Xaa Val Thr Glu Asn Gly
          35           40           45
Ala Asp Pro Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Asn His
          50           55           60
Lys Thr Ser Lys Arg Lys Thr Lys Ile Ser Arg Lys Thr Arg Asn Pro
          65           70           75           80
Thr Phe Asn Glu Met Leu Val Tyr Ser Gly Tyr Ser Lys Glu Thr Leu
          85           90           95
Arg Gln Arg Glu Leu Gln Leu Ser Val Leu Ser Ala Glu Ser Leu Arg
          100          105          110
Glu Asn Phe Phe Leu Gly Gly Val Thr Leu Pro Leu Lys Asp Phe Asn
          115          120          125
Leu Ser Lys Glu Thr Val Lys Trp Tyr Gln Leu Thr Ala Ala Thr Tyr
          130          135          140
Leu
145

```

<210> 1171

<211> 464

<212>Amino acid

<213> Homo sapiens

<400> 1171

```

Leu His Arg Ile Met Gln Leu Ala Val Val Val Ser Gln Val Leu Glu
 1           5           10           15
Asn Gly Ser Ser Val Leu Val Cys Leu Glu Glu Gly Trp Asp Ile Thr
          20           25           30
Ala Gln Val Thr Ser Leu Val Gln Leu Leu Ser Asp Pro Phe Tyr Arg
          35           40           45
Thr Leu Glu Gly Phe Gln Met Leu Val Glu Lys Glu Trp Leu Ser Phe
          50           55           60
Gly His Lys Phe Ser Gln Arg Ser Ser Leu Thr Leu Asn Cys Gln Gly
          65           70           75           80
Ser Gly Phe Ala Pro Val Phe Leu Gln Phe Leu Asp Cys Val His Gln
          85           90           95
Val His Asn Gln Tyr Pro Thr Glu Phe Glu Phe Asn Leu Tyr Tyr Leu
          100          105          110
Lys Phe Leu Ala Phe His Tyr Val Ser Asn Arg Phe Lys Thr Phe Leu
          115          120          125
Leu Asp Ser Asp Tyr Glu Arg Leu Glu His Gly Thr Leu Phe Asp Asp
          130          135          140
Lys Gly Glu Lys His Ala Lys Lys Gly Val Cys Ile Trp Glu Cys Ile
          145          150          155          160
Asp Arg Met His Lys Arg Ser Pro Ile Phe Phe Asn Tyr Leu Tyr Ser
          165          170          175
Pro Leu Glu Ile Glu Ala Leu Lys Pro Asn Val Asn Val Ser Ser Leu
          180          185          190

```

Lys Lys Trp Asp Tyr Tyr Ile Glu Glu Thr Leu Ser Thr Gly Pro Ser
 195 200 205
 Tyr Asp Trp Met Met Leu Thr Pro Lys His Phe Pro Ser Glu Asp Ser
 210 215 220
 Asp Leu Ala Gly Glu Ala Gly Pro Arg Ser Gln Arg Arg Thr Val Trp
 225 230 235 240
 Pro Cys Tyr Asp Asp Val Ser Cys Thr Gln Pro Asp Ala Leu Thr Ser
 245 250 255
 Leu Phe Ser Glu Ile Glu Lys Leu Glu His Lys Leu Asn Gln Ala Pro
 260 265 270
 Glu Lys Trp Gln Gln Leu Trp Glu Arg Val Thr Val Asp Leu Lys Glu
 275 280 285
 Glu Pro Arg Thr Asp Arg Ser Gln Arg His Leu Ser Arg Ser Pro Gly
 290 295 300
 Ile Val Ser Thr Asn Leu Pro Ser Tyr Gln Lys Arg Ser Leu Leu His
 305 310 315 320
 Leu Pro Asp Ser Ser Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro
 325 330 335
 Ser Asn Gly Val Glu Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr
 340 345 350
 Ser Lys Asn Asp Glu Asn Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg
 355 360 365
 Gly Ala Leu Leu Lys Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val
 370 375 380
 Thr Lys His Gln Leu Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys
 385 390 395 400
 Lys Gly His Ile Asp Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly
 405 410 415
 Pro Ser Met Gly Ala Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp
 420 425 430
 Leu Lys Thr Ser Lys Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln
 435 440 445
 Ser Ala Gln Gln Trp Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala
 450 455 460 464

<210> 1172

<211> 256

<212> Amino acid

<213> Homo sapiens

<400> 1172

Glu Val Glu Gly Pro Arg Arg Val Ser Pro Ala Pro Glu Thr Leu Gly
 1 5 10 15
 Met Glu Glu Ser Val Val Arg Pro Ser Val Phe Val Val Asp Gly Gln
 20 25 30
 Thr Asp Ile Pro Phe Thr Arg Leu Gly Arg Ser His Arg Arg Gln Ser
 35 40 45
 Cys Ser Val Ala Arg Val Gly Leu Gly Leu Leu Leu Leu Met Gly
 50 55 60
 Ala Gly Leu Ala Val Gln Gly Trp Phe Leu Leu Gln Leu His Trp Arg
 65 70 75 80
 Leu Gly Glu Met Val Thr Arg Leu Pro Asp Gly Pro Ala Gly Ser Trp
 85 90 95
 Glu Gln Leu Ile Gln Glu Arg Arg Ser His Glu Val Asn Pro Ala Ala
 100 105 110
 His Leu Thr Gly Ala Asn Ser Ser Leu Thr Gly Ser Gly Gly Pro Leu
 115 120 125

```

Leu Trp Glu Thr Gln Leu Gly Leu Ala Phe Leu Arg Gly Leu Ser Tyr
 130                135                140
His Asp Gly Ala Leu Val Val Thr Lys Ala Gly Tyr Tyr Tyr Ile Tyr
145                150                155                160
Ser Lys Val Gln Leu Gly Gly Val Gly Cys Pro Leu Gly Leu Ala Ser
                165                170                175
Thr Ile Thr His Gly Leu Tyr Lys Arg Thr Pro Arg Tyr Pro Glu Glu
                180                185                190
Leu Glu Leu Leu Val Ser Gln Gln Ser Pro Cys Gly Arg Ala Thr Ser
                195                200                205
Ser Ser Arg Val Trp Trp Asp Ser Ser Phe Leu Gly Gly Val Val His
                210                215                220
Leu Glu Ala Gly Glu Glu Val Val Val Arg Val Leu Asp Glu Arg Leu
225                230                235                240
Val Arg Leu Arg Asp Gly Thr Arg Ser Tyr Phe Gly Ala Phe Met Val
                245                250                255 256

```

```

<210> 1173
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

<400> 1173
Gln Ser Ala Glu Leu Gly Pro Arg Arg Arg Glu Gly Ser Arg Arg Pro
 1      5      10      15
Ser Cys Thr Lys Ala Ser Lys Pro Trp Arg Arg Arg Pro Gly Gly Pro
                20      25      30
Thr Ser Gly Leu Gly Xaa Gly Pro Leu Ser Pro Gly Pro Tyr Gln Cys
                35      40      45
Arg Pro Ser Leu Pro Ala Gln Leu Tyr Pro Gln Ser Leu Met Ala Ala
                50      55      60
Ala Thr Leu Arg Thr Pro Thr Gln Val Ser Ala Ala Ser Ser Arg Pro
                65      70      75      80
His Thr Pro Ser Pro Thr His Val Leu Lys Pro Ser Val Arg Gly Ala
                85      90      95
Cys Ser Ser Pro Arg Cys Pro Gly Ser Gly Thr Leu Arg Arg Ser Trp
                100      105      110
Val Gly Pro Phe Phe
                115      117

```

```

<210> 1174
<211> 370
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1174
Leu Trp Trp Pro Pro Leu Ser Arg His Ala Ala His Arg Gln Trp Pro

```



```

1           5           10           15
Gly Pro Thr Ala Pro Arg Gly Leu Gly His Lys Val Lys Gly Arg Gly
20           25           30
Ala Ser Pro Ala Ala Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly
35           40           45
Leu Val Glu Glu Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser
50           55           60
Leu Leu Ser Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys
65           70           75           80
Tyr Asn Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met
85           90           95
Thr Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val
100          105          110
Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg
115          120          125
Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu Gln Ile
130          135          140
Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu
145          150          155          160
Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala
165          170          175
Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe Val Trp Gly Gly Ala
180          185          190
Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val
195          200          205
Ser Thr Arg Ala Leu Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala
210          215          220
Asp Ala Thr Leu Val Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr
225          230          235          240
Leu Tyr Ala Leu Val Leu Ser Arg Val Arg Arg Glu Asp Thr Pro
245          250          255
Leu Asp Arg Asp Thr Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu
260          265          270
Val Ala Thr Val Cys Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu
275          280          285
Ile Leu Leu Gly His Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp
290          295          300
Ala His Tyr Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu
305          310          315          320
Leu Ala Phe Ser Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met
325          330          335
Asn Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro
340          345          350
Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln Val
355          360          365
Leu Ala
370

```

<210> 1175

<211> 145

<212>Amino acid

<213> Homo sapiens

<400> 1175

```

Ser Glu Ser Glu Leu Phe Thr Leu Met Pro Ser Leu Pro Thr Thr Asn
1           5           10           15
Cys Val His Ser Leu Gln Met Ile Pro Pro Leu Ser Pro Ala Pro Asn
20           25           30
Gln Glu Leu Val Leu Gly Leu Cys Tyr Met Ser Tyr Leu Ala Phe Leu

```

```

          35          40          45
Tyr Met Thr Phe Asp Phe Cys Cys Leu Tyr Phe Ser Thr Val Tyr Ala
    50          55          60
Pro Ser Phe Lys Tyr Ile Cys Val His Thr Asp Thr His Ile Cys Val
    65          70          75          80
Cys Val Cys Ile Tyr Leu Ser Ser Val Val Ser Lys Ser Ser Ala Glu
          85          90          95
Ala Asp Gly Val Leu Gln Pro Arg Arg His Pro Ala Ser Leu Leu Ile
    100          105          110
Val Phe Ala Thr Ser Ile Ser Glu Ser Ser Leu Leu Ile Phe Ser Phe
    115          120          125
Gln Lys Thr Glu Ala Lys Leu Ile Val Phe Ala Val Ser Leu Ala Ala
    130          135          140
Lys
145

```

<210> 1176
 <211> 50
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1176
Phe Phe Phe Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys
  1          5          10          15
Ser Gly Ala Thr Ser Ala Ser Pro Ser Ala Gly Ile Thr Gly Met Ser
    20          25          30
His His Ser Gln Pro Ile Val Asn Phe Leu Arg Ala Cys Ile Pro Ile
    35          40          45
Ser Lys
  50

```

<210> 1177
 <211> 231
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1177
Arg Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu
  1          5          10          15
Thr Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Leu Arg Arg
    20          25          30
His Gln Arg Gln Gly Gln Glu Gly His Tyr His Ser Cys Val Gln
    35          40          45
Leu Ala Pro Thr Arg Gly Leu Glu Glu Ser Gly His Gly Pro Leu Ser
    50          55          60
Leu Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Thr Glu
    65          70          75          80
Ala Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg
    85          90          95
Tyr Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala
    100          105          110
Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Asp Ala
    115          120          125
Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys

```